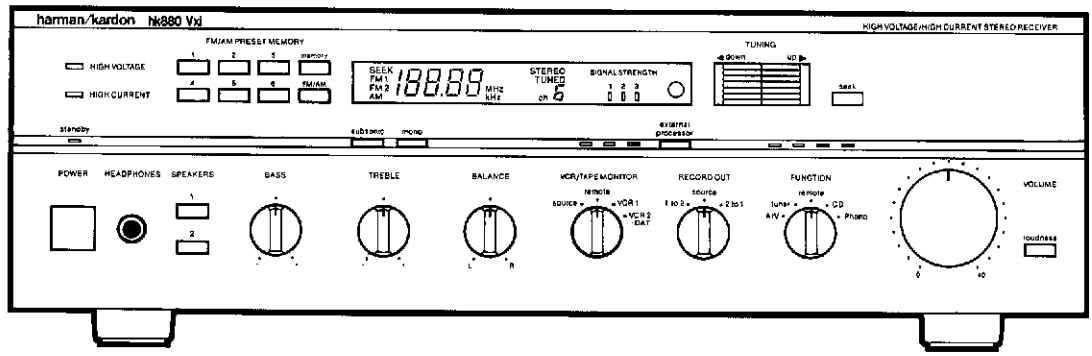
The Harman Kardon
Model hk880Vxi

Manual 134A

HIGH VOLTAGE/HIGH CURRENT STEREO RECEIVER

Technical Manual



The following marks found in the parts list of this manual identify the models as follows.

- UA : North America area model
- BK : North America area model Black version
- G : General model
- GB : General model Black version
- BB : Australia model Black version

hk880Vxi

harman/kardon

240 Crossways Park West, Woodbury, N.Y. 11797

1112-3152134A8 P-078803 1500 Printed in Japan

SPECIFICATIONS

	Nominal	Limit
●FM SECTION		
Tuning Range	87.5 ~	108.0MHz
50dB Quieting Sensitivity		
Mono	15.2dBf ≦	19dBf
Stereo	37dBf ≦	41dBf
Usable Sensitivity	10.7dBf ≦	15dBf
Image Ratio	75dB ≧	60dB
IF Rejection	100dB ≧	85dB
Spurious Response Rejection	100dB ≧	85dB
Capture Ratio	1.5dB ≦	2.5dB
Alternate Channel Selectivity	70dB ≧	60dB
AM Rejection	54.5dB ≧	45dB
Signal to Noise Ratio		
Mono	80dB ≧	74dB
Stereo	73.5dB ≧	70dB
Total Harmonic Distortion (65dBf 1kHz Input)		
Mono	0.08% ≦	0.3%
Stereo	0.08% ≦	0.3%
Stereo Separation at 1kHz	53dB ≧	45dB
●AM SECTION		
Tuning Range		
North America area model	520 ~	1,620kHz
General and Australia models	531 ~	1,602kHz
Usable Sensitivity	16 μVm ≦	40 μVm
Selectivity	32dB ≧	25dB
Signal to Noise Ratio	53dB ≧	48dB
Image Rejection	40dB ≧	32dB
IF Rejection	62dB ≧	50dB
●AUDIO SECTION		
Usable Sensitivity		
Video/CD	135mV ±	25mV
Phono	2.2mV ±	0.2mV
Signal to Noise Ratio		
Video/CD	81dB ≧	75dB
Phono	79.5dB ≧	73dB
Channel Separation at 10kHz		
Video/CD	52.5dB ≧	45dB
Phono	56dB ≧	45dB

	Nominal	Limit
IM Distortion Ratio	0.06% ≦	0.015%
RMS Output Power		
8Ω, 1kHz, THD 0.1%	77.6W ≧	60W
4Ω, 1kHz, THD 0.3%	123.2W ≧	60W
Damping Factor at 1kHz	58 ≧	50
Tone Control Characteristics		
Bass at 50Hz		
Boost	10dB ±	2dB
Cut	−10dB ±	2dB
Treble at 10kHz		
Boost	10dB ±	2dB
Cut	−10dB ±	2dB
Loudness Control		
at 10kHz	3dB ±	1dB
at 50Hz	10dB ±	2dB
Subsonic Control		
at 15Hz	−3.5dB ±	1.5dB
DC Output Voltage		
L channel	8mV ±	60mV
R channel	5mV ±	60mV
RIAA Equalization at Tape Out (20Hz/20kHz)	0.07dB±0.5dB/0.28dB±0.5dB	
●DIMENSIONS (W x H x D)	17-3/8" x 5-1/4" x 14-1/2" (443 x 134 x 368 mm)	
●WEIGHT	22 lbs. (10 kg)	
●POWER SUPPLY		
North America area model	AC120V, 60Hz	
General and Australia models	AC220/240V, 50/60Hz	
●POWER CONSUMPTION		
North America area model	280W (340VA)	
General and Australia models	210W	

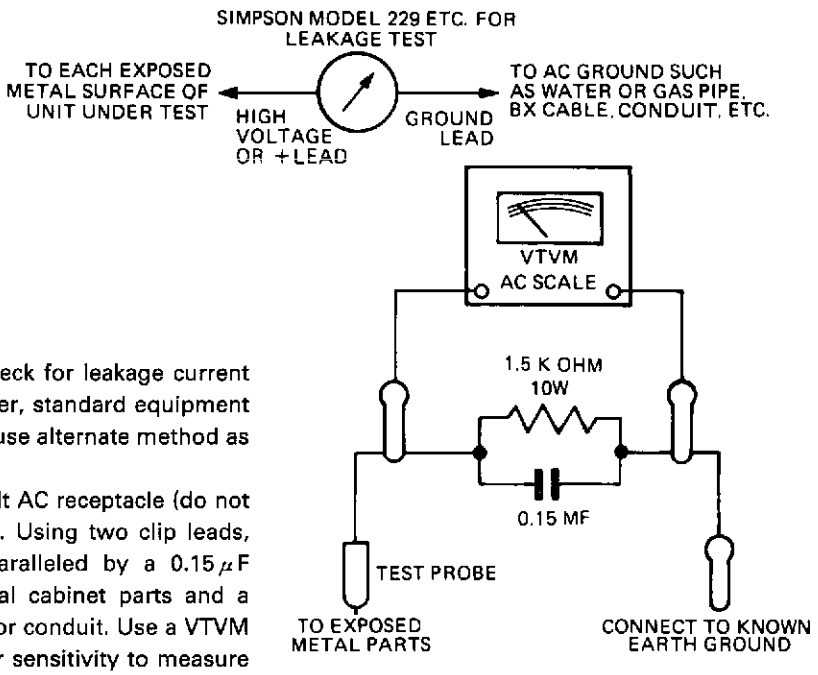
These specifications are Service target specs.

Specifications and components subject to change without notice. Overall performance will be maintained or improved.

LEAKAGE TEST (FOR SERVICE ENGINEERS IN THE U.S.A.)

Before returning the unit to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the unit.
2. Replace all protective devices such as nonmetallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Be sure that no shock hazard exists; check for leakage current using Simpson Model 229 Leakage Tester, standard equipment item No. 21641, RCA Model WT540A or use alternate method as follows:


SIMPSON MODEL 229 ETC. FOR LEAKAGE TEST
TO EACH EXPOSED METAL SURFACE OF UNIT UNDER TEST
HIGH VOLTAGE OR +LEAD
GROUND LEAD
TO AC GROUND SUCH AS WATER OR GAS PIPE, BX CABLE, CONDUIT, ETC.
VTVM AC SCALE
1.5 K OHM 10W
0.15 MF
TEST PROBE
TO EXPOSED METAL PARTS
CONNECT TO KNOWN EARTH GROUND

Plug the AC line cord directly into a 120-volt AC receptacle (do not use an Isolation Transformer for this test). Using two clip leads, connect a 1500 ohm, 10-watt resistor paralleled by a 0.15 μF capacitor, in series with all exposed metal cabinet parts and a known earth ground, such as a water pipe or conduit. Use a VTVM or VOM with 1000 ohms per volt, or higher sensitivity to measure the AC voltage drop across the resistor. (See Diagram.) Move the resistor connection to each exposed metal part having a return path to the chassis (antenna, metal, cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor. (This test should be performed with the power switch in both the On and Off positions.) A reading of 0.35 volt RMS or more is excessive and indicates a potential shock hazard which must be corrected before returning the unit to the owner.

DISASSEMBLY PROCEDURES (REFER TO PAGES 8, 9, 10, 11, 22 AND 23)

1 CABINET TOP (131) REMOVAL

Remove 6 screws (A) and then remove the Cabinet Top (131).

2 CABINET BOTTOM (135) REMOVAL

Remove 6 screws (B) and then remove the Cabinet Bottom (135).

3 FRONT PANEL ASSEMBLY (AA) REMOVAL

1. Remove the Cabinet Top (131), referring to the previous step 1.
2. Remove 6 screws (C) and then remove the Front Panel Assembly (AA).

4 TUNER P.C. BOARD (PCB-21) REMOVAL

1. Remove the Front Panel Assembly (AA), referring to the previous step 3.
2. Disconnect the (CW804) from (CN107) on the Tuner P.C. Board (PCB-21).
3. Open the lid of connectors (CN101, CN102, CN103, CN105 and CN106) on the Tuner P.C. Board (PCB-21) and then disconnect the lead wires.
4. Remove 3 screws (D) and then remove the Tuner P.C. Board (PCB-21). If necessary, unsolder the lead wires.

5 EQUALIZER P.C. BOARD (PCB-5) REMOVAL

1. Remove the Tuner P.C. Board (PCB-21), referring to the previous step 4.
2. Remove 2 screws (E) and then remove the Metal Fitting (166).
3. Disconnect the (CW602) from (CN804) on the Control P.C. Board (PCB-6).
4. Open the lid of connector (CN401) on the Main P.C. Board (PCB-1) and (CN802) on the Control P.C. Board (PCB-6) and then disconnect the lead wires.
5. Open the lid of connector (CN601) on the Equalizer P.C. Board (PCB-5) and then disconnect the lead wire.
6. Remove 3 screws (F) and then remove the Equalizer P.C. Board (PCB-5). If necessary, unsolder the lead wires.

6 CONTROL P.C. BOARD-D (PCB-6) REMOVAL

1. Remove the Equalizer P.C. Board (PCB-5), referring to the previous step 5.
2. Disconnect the (CW801, CW802 and CW803) from (CN806, CN808 and CN810) on the Function P.C. Board (PCB-8).
3. Disconnect the (CW808 and CW813) from (CN803 and CN805) on the Control P.C. Board (PCB-6).
4. Remove 2 screws (G) and then remove the Control P.C. Board (PCB-6).
   If necessary, unsolder the lead wires.

7 MAIN P.C. BOARD (PCB-1) REMOVAL

1. Remove the Control P.C. Board (PCB-6), referring to the previous step 6.
2. Open the lid of connectors (CN402 and CN403) on the Main P.C. Board (PCB-1) and then disconnect the lead wires.
3. Remove 5 screws (H) and then remove the Main P.C. Board (PCB-1) with Metal Fittings (163 and 165) and Heat Sink (171).
   If necessary, unsolder the lead wires.

8 VOLUME P.C. BOARD (PCB-11) REMOVAL

1. Remove the Tuner P.C. Board (PCB-21), referring to the previous Step 4.
2. Open the lid of connector (CN402) on the Main P.C. Board (PCB-1) and (CN501) on the Tone Control P.C. Board (PCB-2) and the disconnect the lead wires.
3. Pull out Volume Knob (154).
4. Remove hexagon nut (I) and then remove the Volume P.C. Board (PCB-11).
   If necessary, unsolder the lead wires.

9 FUNCTION P.C. BOARD (PCB-2) REMOVAL

1. Remove the Tuner P.C. Board (PCB-21), referring to the previous step 4.
2. Disconnect the (CW801, CW802, CW803, CW805 and CW806) from (CN806, CN807, CN808, CN809 and CN810) on the Function P.C. Board (PCB-8).
3. Pull out VCR/TAPE Monitor, Record Out and Function Knob (155).
4. Remove 3 hexagon nuts (J) and then remove the Function P.C. Board (PCB-8).

10 TONE CONTROL P.C. BOARD (PCB-2) REMOVAL

1. Remove the Tuner P.C. Board (PCB-21), referring to the previous step 4.
2. Open the lid of connector (CN403) on the Main P.C. Board (PCB-1) and then disconnect the lead wires.
3. Open the lid of connector (CN501 and CN502) on the Tone Control P.C. Board (PCB-2) and then disconnect the lead wires.
4. Pull out Bass, Treble and Balance Knob (155).
5. Remove 3 hexagon nuts (K) and then remove the Tone Control P.C. Board (PCB-2).

11 LED P.C. BOARD (PCB-7) REMOVAL

1. Remove the Tuner P.C. Board (PCB-21), referring to the previous step 4.
2. Open the lid of connector (CN601) on the Equalizer P.C. Board (PCB-5) and (CN801) on the Control P.C. Board (PCB-6) and then disconnect the lead wires.
3. Disconnect the (CW807) from (CN811) on the Relay P.C. Board (PCB-9).
4. Remove 4 screws (L), then remove the Holder (176), and the remove the LED P.C. Board (PCB-7).

12 RELAY P.C. BOARD (PCB-9) REMOVAL

1. Remove the Cabinet Top (131), referring to the previous step 1 .
2. Remove 2 screws (M) and then remove the Relay P.C. Board (PCB-9) with Metal Fitting (168).

13 AV P.C. BOARD (PCB-10) REMOVAL

1. Remove the Cabinet Top (131), referring to the previous Step 1 .
2. Disconnect the (CW808) from (CN803) on the Control P.C. Board (PCB-6).
3. Remove 2 screws (N) and then remove the AV P.C. Board (PCB-10).

14 ANTENNA TERMINAL P.C. BOARD (PCB-24) AND AM ADJUSTMENT P.C. BOARD (PCB-25) REMOVAL

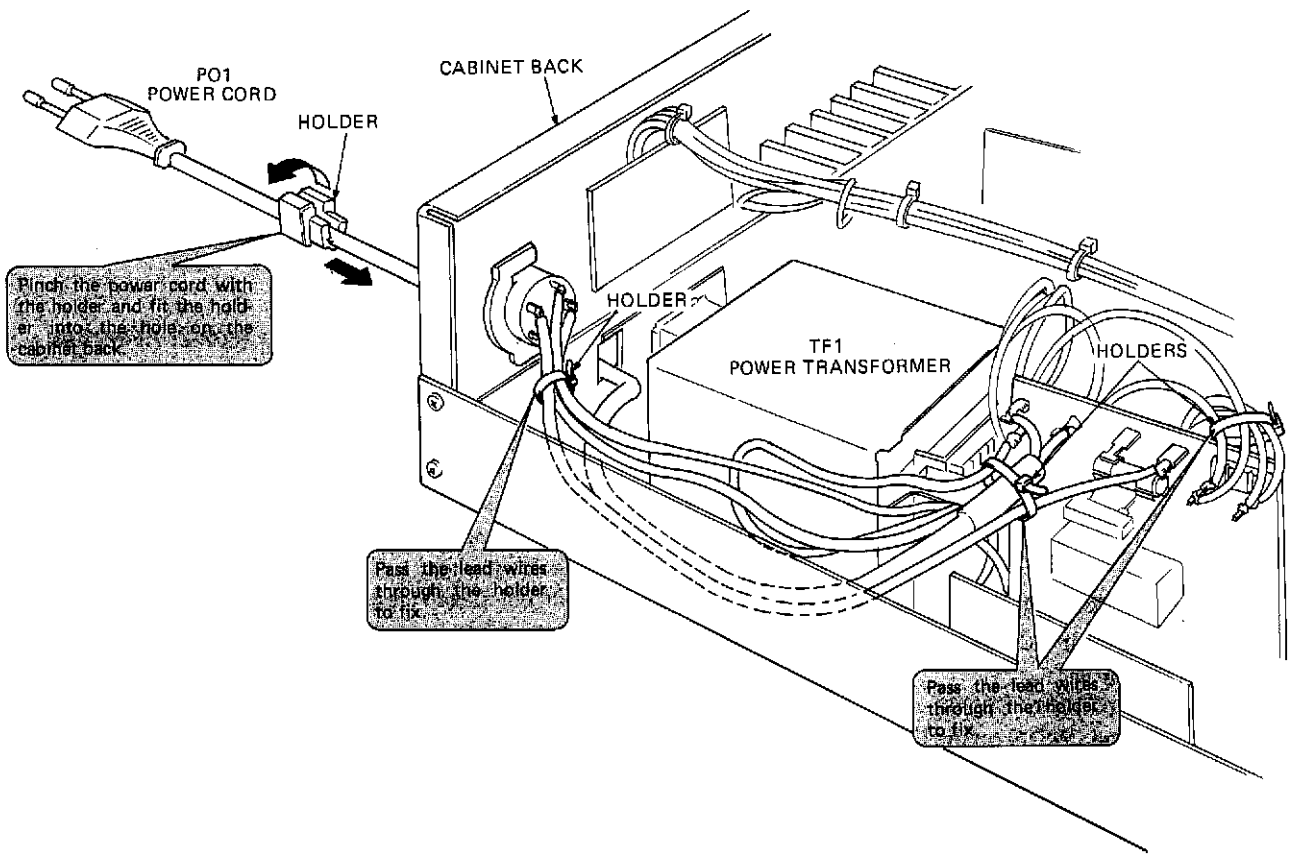
1. Remove the Cabinet Top (131), referring to the previous step 1 .
2. Remove 3 screws (O) and then remove the Antenna Terminal P.C. Board (PCB-24) and AM Adjustment P.C. Board (PCB-25).
   If necessary, unsolder the lead wires.

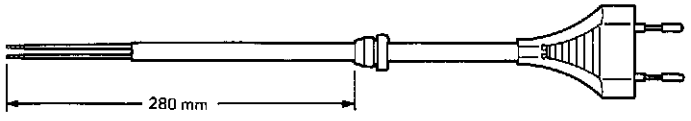
15 SPEAKER TERMINAL P.C. BOARD (PCB-14) REMOVAL

1. Remove the Cabinet Top (131), referring to the previous step 1 .
2. Remove 2 screws (P) and then remove the Speaker Terminal P.C. Board (PCB-14). If necessary, unsolder the lead wires.

POWER CORD REPLACEMENT (FOR SERVICE ENGINEERS OTHER THAN NORTH AMERICA)

In order to prevent fire or shock hazard when replacing the power cord, follow the Procedure below to replace the part with the standard supply parts.


PO1
POWER CORD
HOLDER
CABINET BACK
Pinch the power cord with the holder and fit the holder into the hole on the cabinet back.
HOLDER
TF1
POWER TRANSFORMER
HOLDERS
Pass the lead wires through the holder to fix.
Pass the lead wires through the holder to fix.



CIRCUIT DESCRIPTION

■FM TUNER SECTION

The FM signal which has entered through the antenna is high-frequency amplified in the front end. Then it is mixed with the output of the local oscillators and converted into the 10.7MHz intermediate-frequency.

The 10.7MHz signal is amplified in the intermediate frequency amplifying section which consists of CF201, Q201, CF202, Q202 and CF203 and fed to pin 1 of IC201. In IC201, the signal is sent through the IF amplifier and after being detected in the quadrature, it is sent through the post amplifier to pin 12 and then input to pin 2 of IC301. In IC301, the pilot signal is detected out of the signal which has been fed and 38kHz signal is produced. Then by this signal, stereo signal is demodulated, output from pin 4 for the left channel and from pin 7 for the right channel and transmitted to the input selector section.

■AM TUNER SECTION

The AM signal which has entered through the antenna passes through the tuning circuit consisting of L251 and TC251 and is inputted to pin 21 of IC201. In IC201, it undergoes radio-frequency amplification and local oscillation and is output from pin 20, and passed through the transformer (T251) and ceramic filter (CF251) and enters pin 18 of IC301. It is then passed through the IF amplification and detection and is output from pin 15. This signal is fed to IC301.

■AUDIO AMPLIFIER SECTION

The signal which has entered from each input terminal is selected by the input selector, passes through the audio mode switch, subsonic switch balance circuit, volume and loudness circuit and is fed into the pre-amplifier.

Then it is fed into the power amplifier through the tone control circuit, power amplified and transmitted to the speaker terminal.

The power amplifier has an over-output protective circuit. If current exceeding the specification flows to Q431, Q433 (L ch), Q432, Q434 (R ch), it is detected at Q3 (L ch) and Q4 (R ch) and the protective circuit consisting of Q1 and Q7 draws in the base of Q5 (L ch) and Q6 (R ch), and thus the input signal is cut to protect the circuit.

■MUTING CIRCUIT

If FM or AM is received out of tuning or in a very weak field intensity, pin 41 of IC701 becomes high level. This is fed to the base of Q351, whose collector then becomes low level and the collector of Q356 high level. As a result, Q301 (L ch) and Q302 (R ch) are conducted to mute the output.

■SYNTHESIZER SECTION

●FM

The local oscillation output at the front end is fed to pin 15 of the prescaler IC702 and after being frequency divided into 30 or 32, control output signal if fed from IC701, compared with the divided local oscillation output and output to pin 10. This voltage is level converted at Q701 and Q702, and fed to the front end.

●AM

The local oscillation output is fed from pin 24 of IC201 to pin 13 of IC702. In IC702, control output signal is fed from IC701, compared with the local oscillation output and output to pin 10. This voltage is level converted at Q701 and Q702, and fed to the AM local oscillation section.

■INDICATOR SECTION

●Frequency display

The indicator tube is turned ON by the output decoded in IC701.

●Signal strength

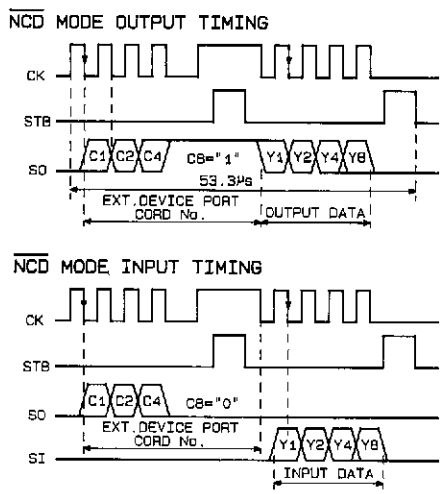
The voltage corresponding to the signal level is output from pin 16 of IC201 and fed into pin 8 of the level comparator IC351. Then D381, D383 and D385 of the signal strength indicator turn ON according to the signal level.

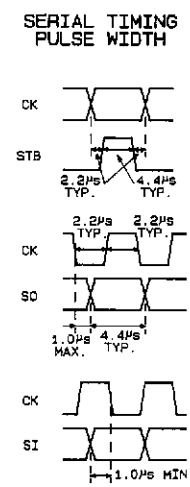
●Tuning

When broadcast is received, "Tuned" of the indicator tube is turned ON by the control signal in IC701. When FM or stereo broadcast is received, pin 9 of IC301 becomes low level, Q705 turns ON and "Stereo" of the indicator tube is turned ON by the control signal in IC701.

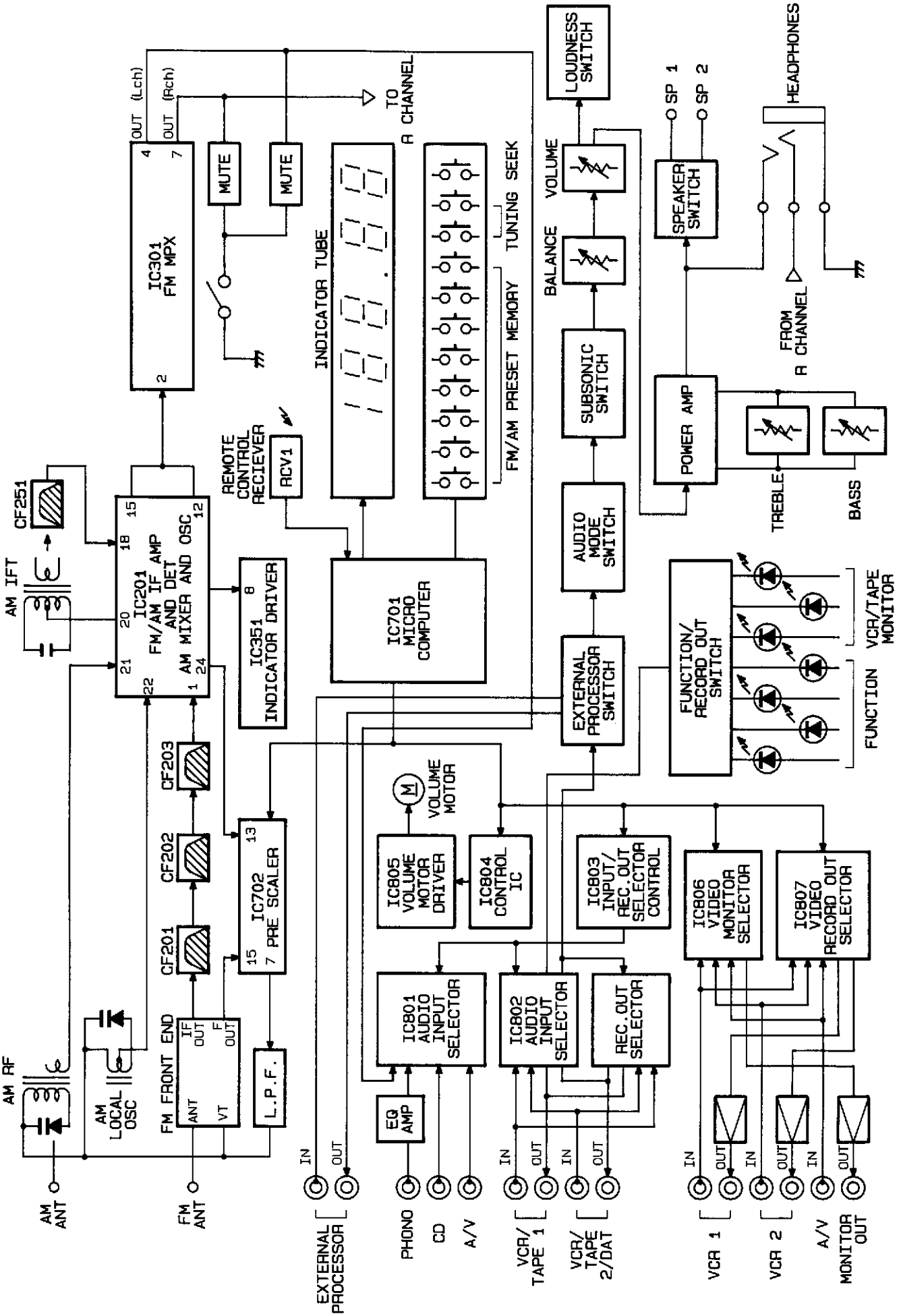
TIMING CHART

Frequency display timing chart of IC701 (TC9306F-025)





BLOCK DIAGRAM



ALIGNMENT PROCEDURES (REFER TO PAGES 19, 20, 21, 24, 27 AND 28)

■ IDLING CURRENT ADJUSTMENT

Conditions:
- Set the Volume control to minimum.
- Press the "Speakers 1 and 2" switches to on (button in) position.
- Set the Speaker Operating Mode switch to "8Ω" position.
- Make the adjustment at a room temperature of 77°F (25°C).
- After the Power switch is pushed on, wait for 30 minutes before measuring to be sure of the most stable operation.
- Set the Function switch to tuner position.

Step	Connection Equipments	Adjustment	For
1	Connect the Digital Volt Meter to TP1 and TP2.	VR401 (L ch)	40mV ±2mV
2	Connect the Digital Volt Meter to TP3 and TP4.	VR402 (R ch)	40mV ±2mV

■ AM ADJUSTMENT

Conditions:
- Set the AM mode by pressing the "FM/AM" button.
- Set the Seek switch to off (put out seek indicator) position.
- Standard modulation of the AM signal Generator is 400Hz at 30%.

Step	Alignment	Connection Equipments	Measurement Frequency	Station Display	Adjustment	For
1	IF	• Connect the AM Test Loop Antenna cable into the output jack of AM Signal Generator (80 dBμV signal). Place AM Test Loop Antenna close enough to couple signal into the AM Loop Antenna. • Connect the VTVM and oscilloscope to the OUTPUT jacks.	1400kHz ※1404kHz	1400kHz ※1404kHz	T251	Maximum output level and symmetrical curve on scope.
2	Tracking		1400kHz ※1404kHz	1400kHz ※1404kHz	TC251	Maximum output.
3			600kHz ※603kHz	600kHz ※603kHz	L251	Maximum output.
4			Repeat steps 2 and 3 for optimum sensitivity.			
5	Signal indicator		1000kHz ※999kHz	1000kHz ※999kHz		Confirm the all Signal indicators light at 5000μV/m input.

※General and Australia models

■ FM ADJUSTMENT

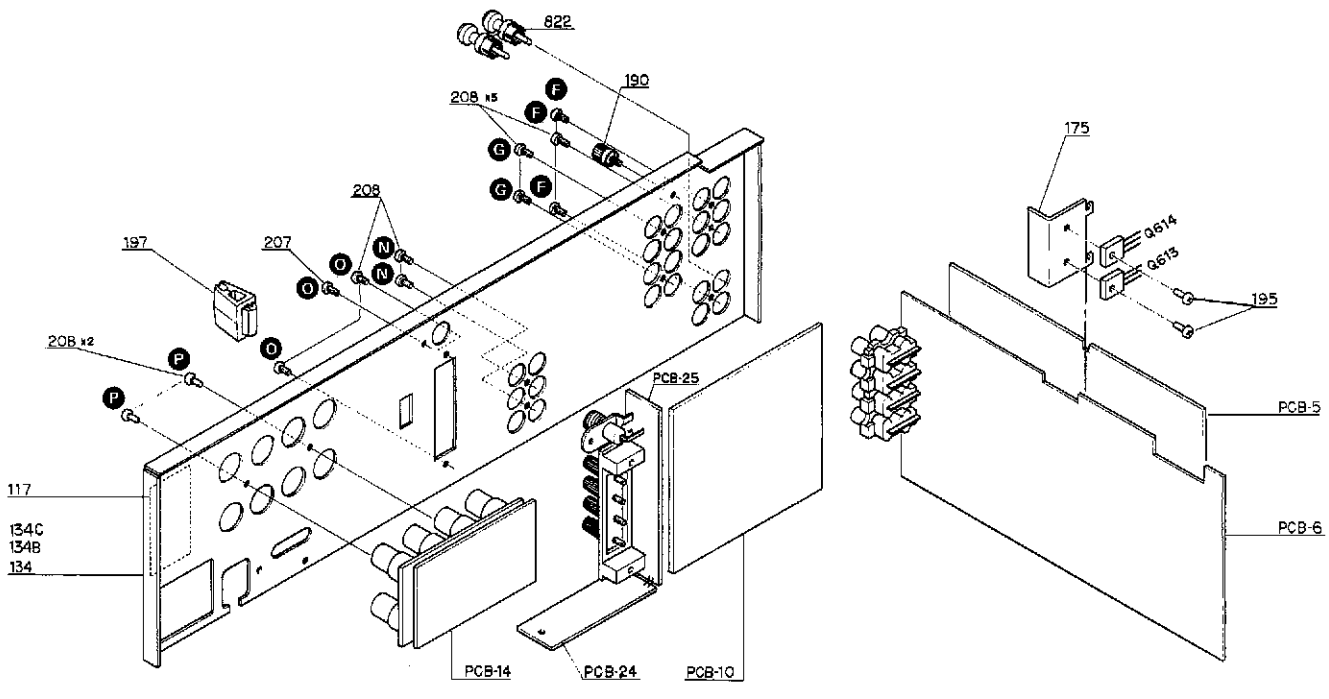
Conditions:
- Set the FM mode by pressing the "FM/AM" button.
- Set the Seek switch to off (put out seek indicator) position.

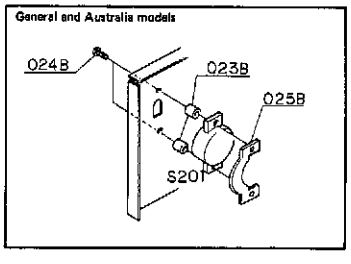
	U.S.A. model	General model
FM Signal Generator	1kHz, 100% modulation	1kHz, 45% modulation
Stereo Modulator	L+R=45.5%, L−R=45.5%, 19kHz=9%	L+R=22.5%, L−R=22.5%, 19kHz=8%

Step	Alignment	Connection Equipments	Measurement Frequency	Station Display	Adjustment	For
1	IF	• Connect the FM Signal Generator to FM 300Ω BAL Antenna terminals through the 300Ω balanced dummy. [1mV(65dBf) input signal] • Connect the Oscilloscope and Distortion meter to the Tape 1 OUTPUT jacks. • Set the Seek switch to on (seek indicator lights) position.	97.9MHz	97.9MHz	T201 T202	Maximum output level.
2	Discriminator		97.9MHz	97.9MHz	T203(A)	Adjust so that the TUNED indicator lights in the same range on both plus (+) and minus (−) sides of 97.9 MHz.
3			97.9MHz	97.9MHz	T203(B)	Minimum distortion.
4			Repeat steps 2 and 3 for optimum sensitivity.			
5	Muting level		97.9MHz	97.9MHz	VR251	Apply 30dBf signal, and adjust VR251 so that the waveform becomes undistorted.

Step	Alignment	Connection Equipments	Measurement Frequency	Station Display	Adjustment	For
6	Separation	• Connect the Stereo Modulator to FM Signal Generator. Connect FM Signal Generator to FM 300Ω BAL Antenna terminal through the 300Ω balanced dummy. (65 dBf input signal) • Connect the VTVM and Oscilloscope to the Tape 1 OUTPUT jacks.	97.9MHz	97.9MHz	VR301	Adjust so that the left channel output becomes minimum when only the right channel of the Stereo Modulator is modulated.
					VR301	Adjust so that the right channel output becomes minimum when only the left channel of the Stereo Modulator is modulated.
7	Signal indicator					Confirm the all signal indicators light at 1mV (65 dBf) input.

GENERAL UNIT
EXPLODED VIEW (CABINET BACK)

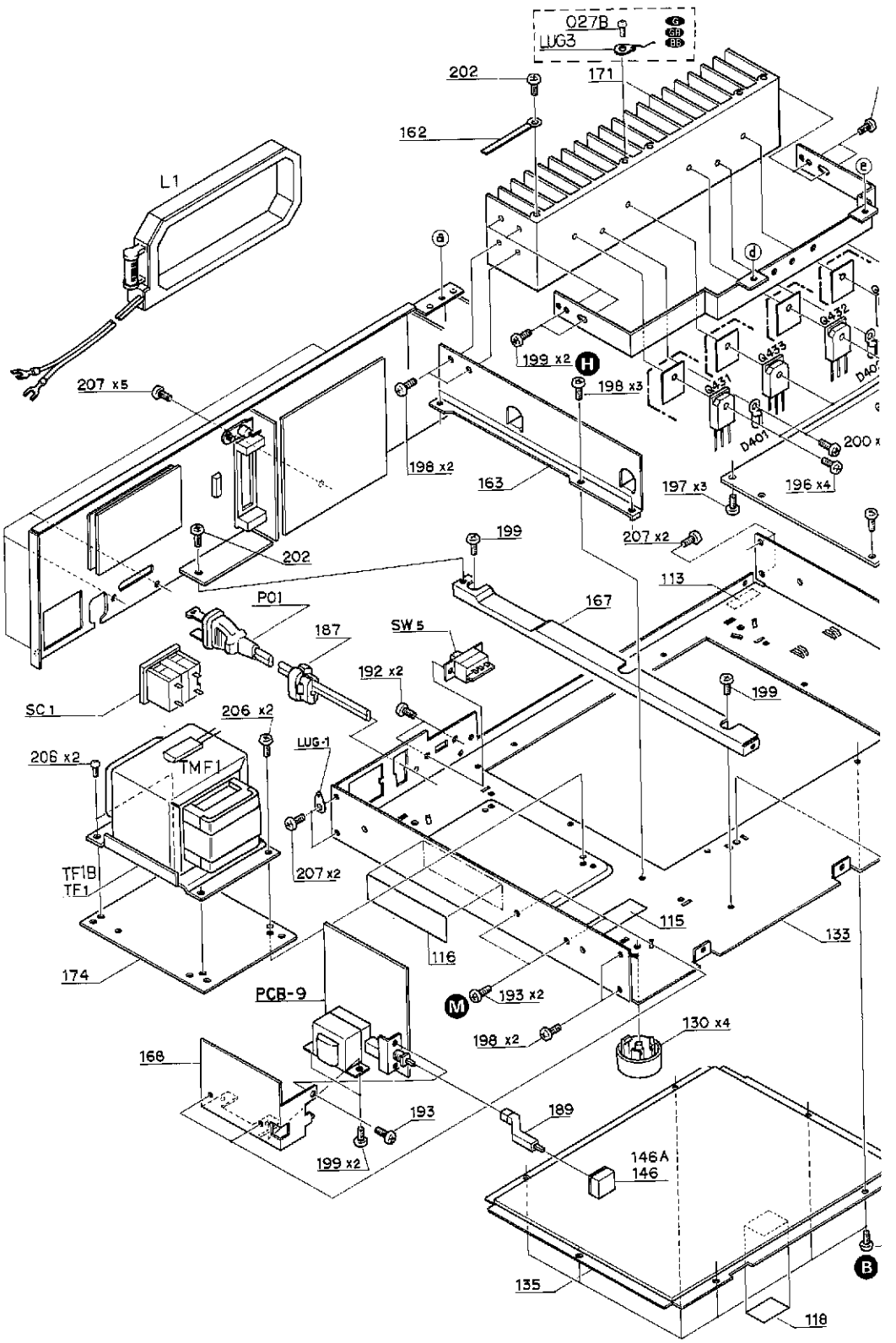




PARTS LIST

Ref. No.	Part No.	Description
023B	2132-7116	SPACER (G) (GB) (BB)
024B	2327-R0130124	SCREW (3 x 12mm) (G) (GB) (BB)
025B	2440-7017	SPECIAL NUT (G) (GB) (BB)
117	1756-CSA	LABEL CSA (UA) (BK)
134	1424-25301	CABI BACK REAR (UA) (BK)
134B	1424-25201	CABI BACK REAR (G)
134C	1424-25401	CABI BACK REAR (GB) (BB)
175	2222-7240	HEAT SINK
190	4214-168	TERMINAL
195	2327-R0130082	SCREW (3 x 8 mm)
197	2240-7208	HOLDER
207	2347-R0130064	SCREW (3 x 6 mm)
208	2347-R0130104	SCREW (3 x 10 mm)
822	2421-7004	PIN, SHORT
⚠S201	4411-102719	ROTARY SWITCH, VOLTAGE SELECTOR (G) (GB) (BB)

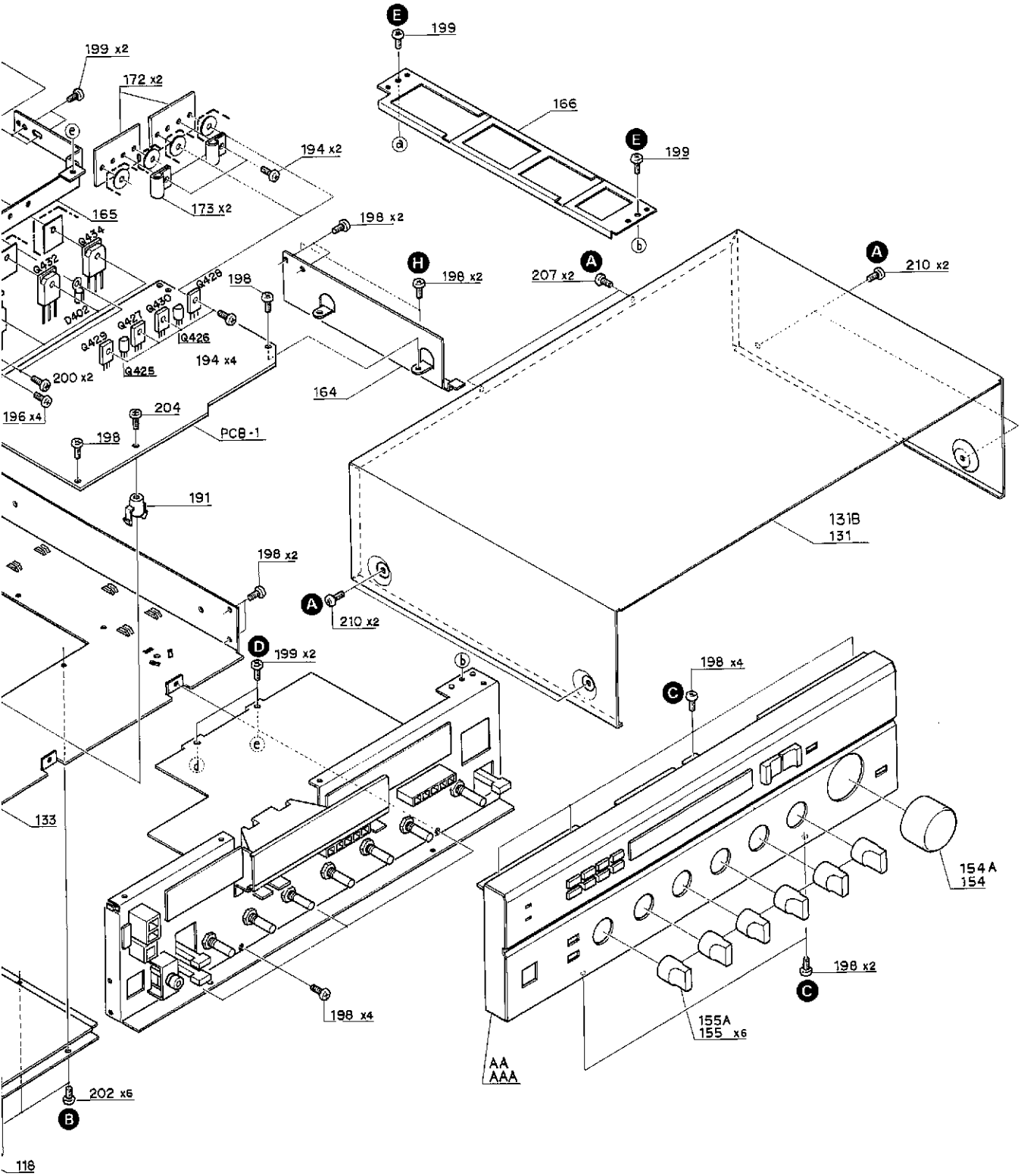
GENERAL UNIT
EXPLODED VIEW



PARTS LIST

Ref. No.	Part No.	Description
AA	A443-HK880A	FRONT PANEL ASS'Y UA G
AAA	A443-HK880B	FRONT PANEL ASS'Y BK GB BB
027B	2347-R0130062	SCREW (3 x 6 mm) G GB BB
113	1117-78	SERIAL LABEL, BOTTOM
115	1756-11301	LABEL
116	1756-05910	LABEL
118	1751-01018	LABEL
130	1319-0139	LEG
131	1414-11601	CABINET UA BK
131B	1414-04401	CABINET G GB BB
133	1424-25001	CABI BACK BOTTOM
135	1424-26101	CABI BACK
146	1660-00401	PUSH BUTTON, POWER UA G
146A	1660-00403	PUSH BUTTON, POWER BK GB BB
154	1630-02601	ROTARY KNOB, VOLUME UA G
154A	1630-02603	ROTARY KNOB, VOLUME BK GB BB
155	1632-16502	ROTARY KNOB, BASS, TREBLE, BALANCE, TAPE MONITOR, RECORD OUT, FUNCTION UA
155A	1632-17101	ROTARY KNOB, BASS, TREBLE, BALANCE, TAPE MONITOR, RECORD OUT, FUNCTION BK
162	2218-7011	BRACKET, FIX WIRING
163	2219-8194	METAL FITTG L
164	2219-8195	METAL FITTG R
165	2219-8234	METAL FITTG
166	2219-8209	METAL FITTG
167	2219-8212	METAL FITTG
168	2219-8213	METAL FITTG
171	2222-7237	HEAT SINK UA BK
171B	2222-7247	HEAT SINK G GB BB
172	2222-7214	HEAT SINK

E	F	G	H	I	J

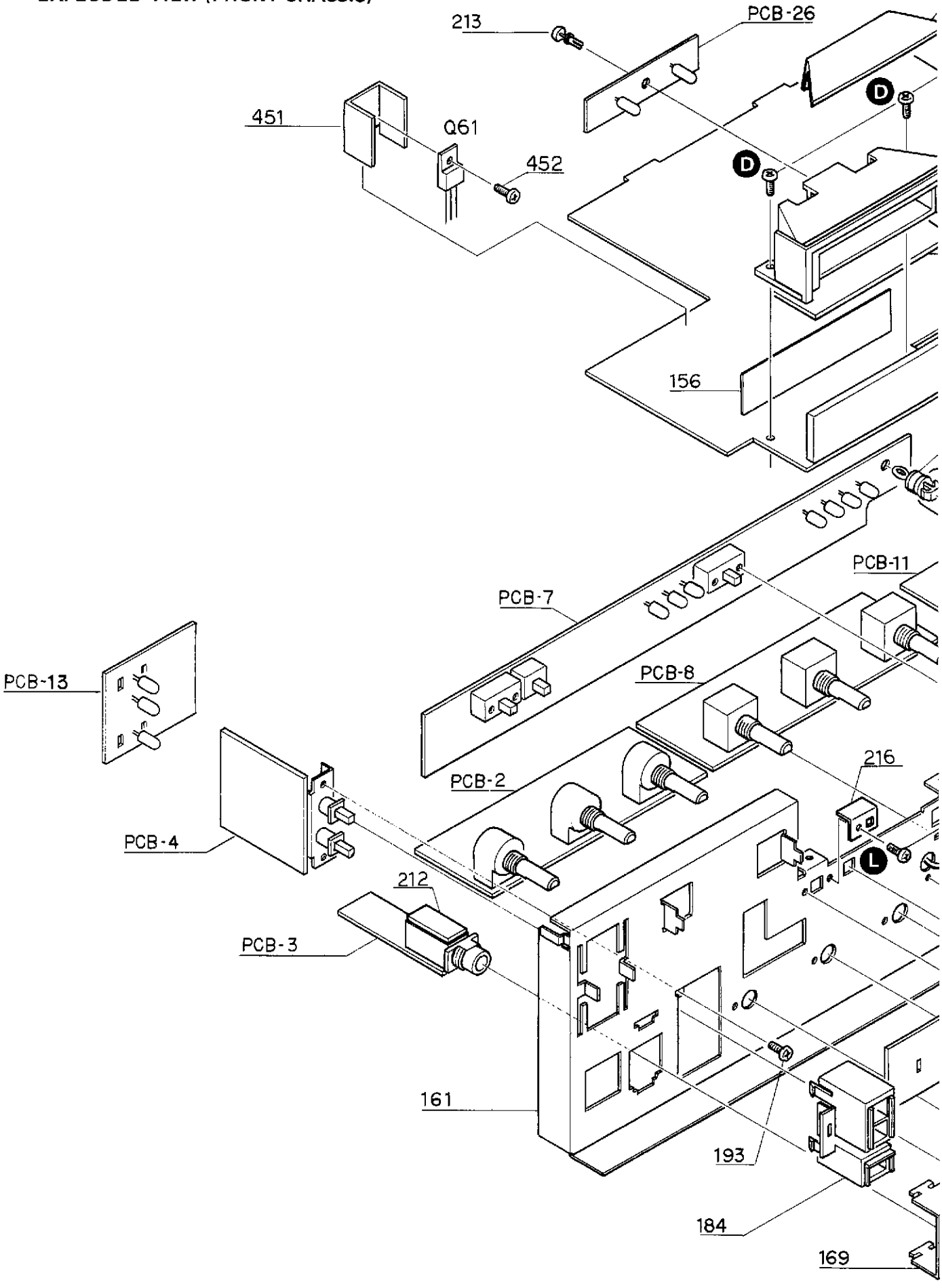


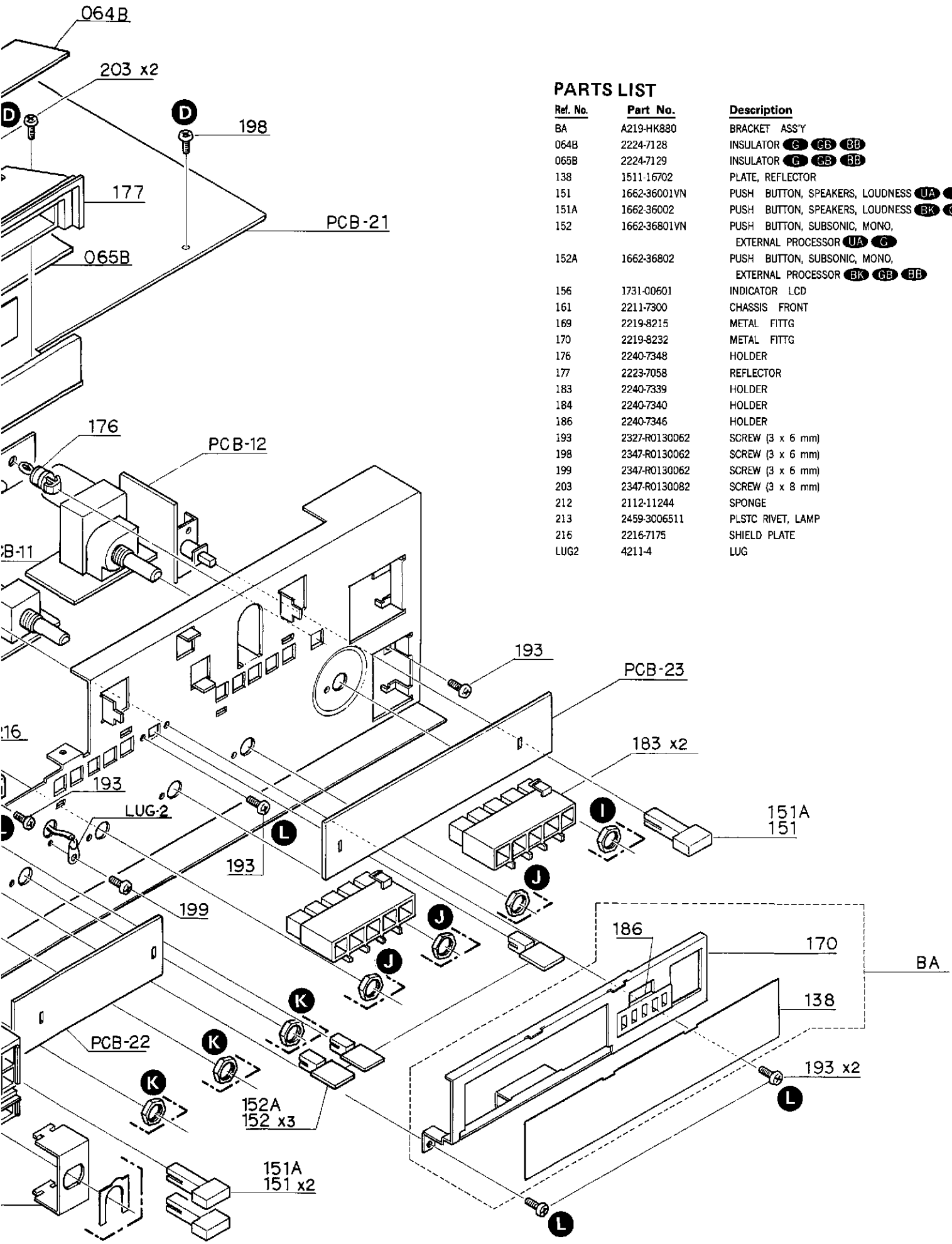
Ref. No.	Part No.	Description
) BB		
ANCE,		
CTION UA G		
ANCE,		
CTION BK GB BB		
173	2222-7067	HEAT SINK
174	2219-8240	METAL FITTG
187	2240-364	HOLDER, AC
189	2601-7174	SHAFT POWER
191	2360-7015	SPECIAL BOSS
192	2327-R0130064	SCREW (3 x 6 mm)
193	2327-R0130062	SCREW (3 x 6 mm)
194	2327-R0130082	SCREW (3 x 8 mm)
196	2320-34	SPECIAL SCREW
197	2347-R0130082	SCREW (3 x 8 mm)
198	2347-R0130062	SCREW (3 x 6 mm)
199	2347-R0130062	SCREW (3 x 6 mm)
200	2347-R0130062	SCREW (3 x 6 mm)
202	2347-R0130062	SCREW (3 x 6 mm)
204	2347-R0130102	SCREW (3 x 10 mm)

Ref. No.	Part No.	Description
206	2592-400826	SCREW (4 x 8 mm)
207	2347-R0130064	SCREW (3 x 6 mm)
210	2347-R0140064	SCREW (4 x 6 mm)
L1	5911-235	ANT COIL BC
LUG1	4211-4	LUG
LUG3	4211-4	LUG G GB BB
⚠TF1	5584-S1406	XFORMER, POWER UA BK
⚠TF1B	5584-S1407	XFORMER, POWER G GB BB
SW5	4421-0227230	SWITCH, SLIDE
⚠SC1	4474-157	SOCKET, AC OUTLET UA BK
⚠PO1	4161-71151	CORD W/PLUG, POWER UA BK
⚠PO1B	4161-7256	CORD W/PLUG, POWER G GB
⚠PO1D	4161-04100	CORD W/PLUG, POWER BB
⚠TMF1	4318-00101080	THERMAL FUSE

GENERAL UNIT

EXPLODED VIEW (FRONT CHASSIS)



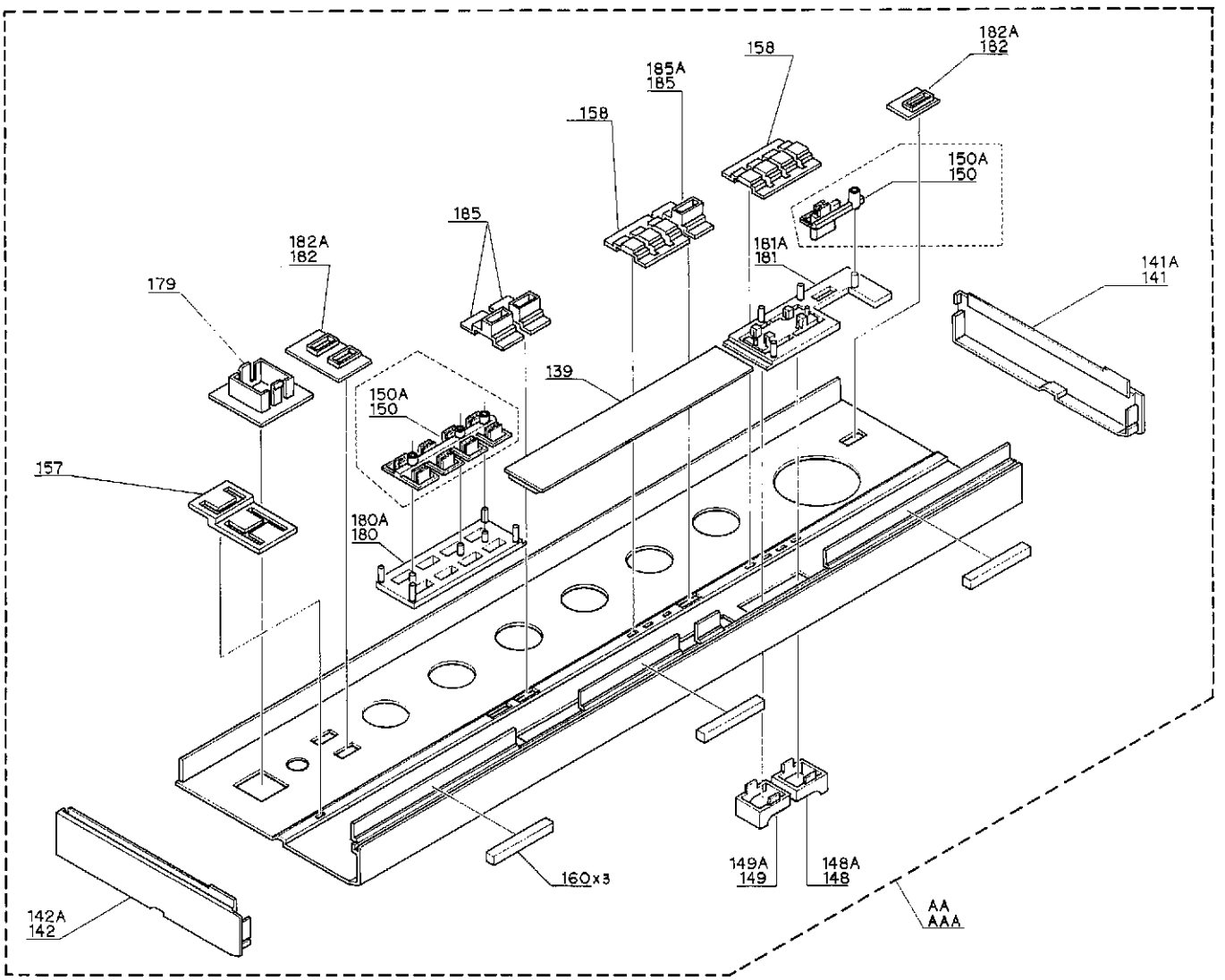


PARTS LIST

Ref. No.	Part No.	Description
BA	A219-HK880	BRACKET ASS'Y
064B	2224-7128	INSULATOR G GB BB
065B	2224-7129	INSULATOR G GB BB
138	1511-16702	PLATE, REFLECTOR
151	1662-36001VN	PUSH BUTTON, SPEAKERS, LOUDNESS UA G
151A	1662-36002	PUSH BUTTON, SPEAKERS, LOUDNESS BK GB BB
152	1662-36801VN	PUSH BUTTON, SUBSONIC, MONO, EXTERNAL PROCESSOR UA G
152A	1662-36802	PUSH BUTTON, SUBSONIC, MONO, EXTERNAL PROCESSOR BK GB BB
156	1731-00601	INDICATOR LCD
161	2211-7300	CHASSIS FRONT
169	2219-8215	METAL FITTG
170	2219-8232	METAL FITTG
176	2240-7348	HOLDER
177	2223-7058	REFLECTOR
183	2240-7339	HOLDER
184	2240-7340	HOLDER
186	2240-7346	HOLDER
193	2327-R0130062	SCREW (3 x 6 mm)
198	2347-R0130062	SCREW (3 x 6 mm)
199	2347-R0130062	SCREW (3 x 6 mm)
203	2347-R0130082	SCREW (3 x 8 mm)
212	2112-11244	SPONGE
213	2459-3006511	PLSTC RIVET, LAMP
216	2216-7175	SHIELD PLATE
LUG2	4211-4	LUG

GENERAL UNIT

EXPLODED VIEW (FRONT PANEL ASS'Y)



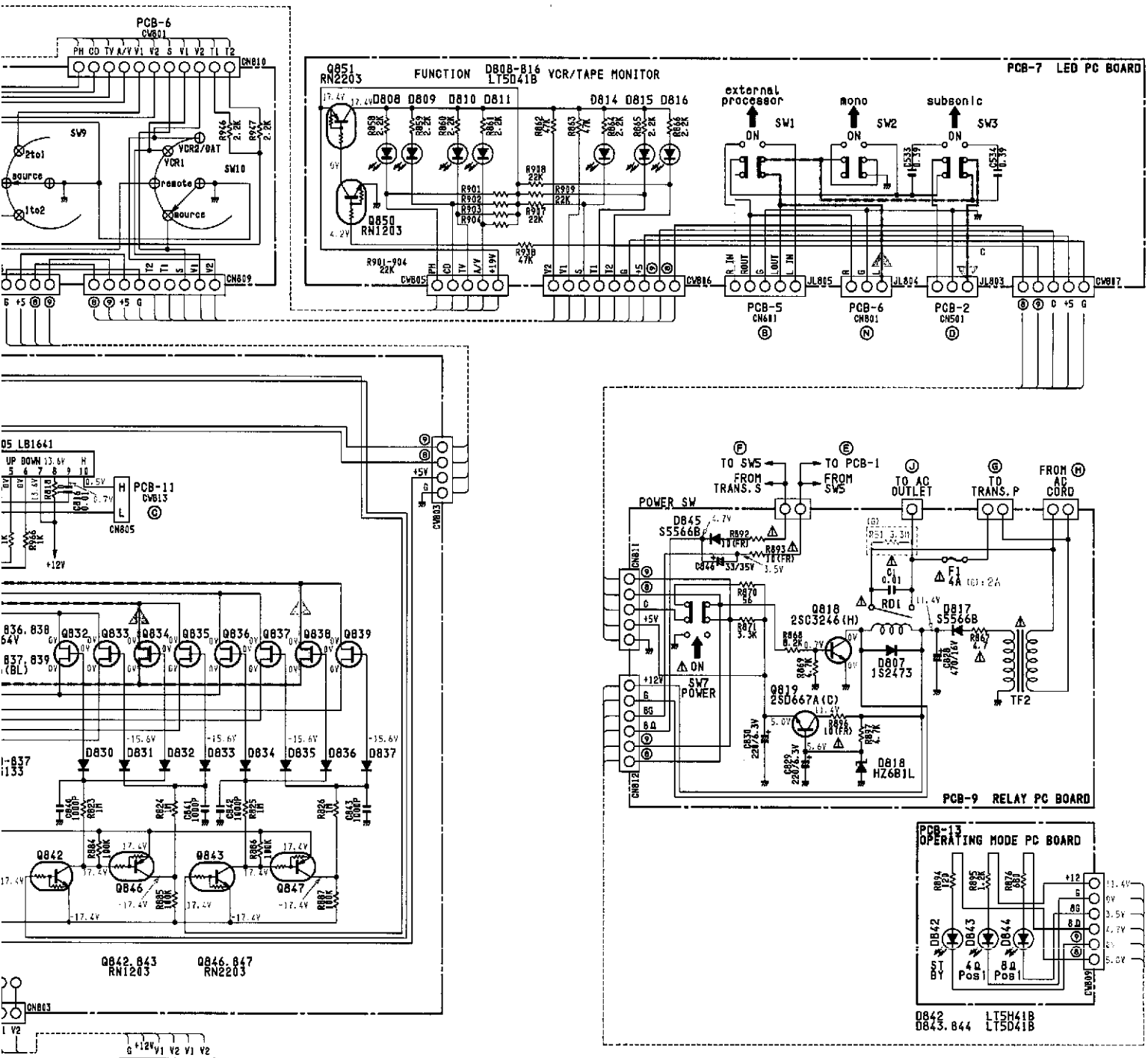
PARTS LIST

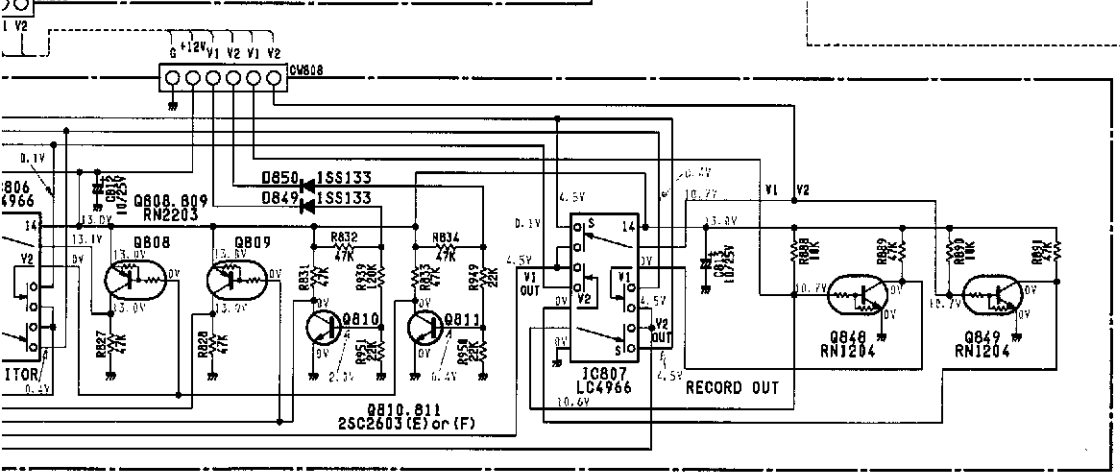
Ref. No.	Part No.	Description
AA	A443-HK880A	FRONT PANEL ASS'Y (UA) (G)
AAA	A443-HK880B	FRONT PANEL ASS'Y (BK) (GB) (BB)
139	1531-12001	WINDOW, FRONT
141	1562-06601	FRAME R (UA) (G)
141A	1562-06602	FRAME R (BK) (GB) (BB)
142	1562-06701	FRAME L (UA) (G)
142A	1562-06702	FRAME L (BK) (GB) (BB)
148	1662-35701VN	PUSH BUTTON, TUNING (UA) (G)
148A	1662-35702	PUSH BUTTON, TUNING (BK) (GB) (BB)
149	1662-35801VN	PUSH BUTTON, TUNING (UA) (G)
149A	1662-35802	PUSH BUTTON, TUNING (BK) (GB) (BB)
150	1662-37201VN	PUSH BUTTON, FM/AM PRESET MEMORY, SEEK (UA) (G)
150A	1662-37202	PUSH BUTTON, FM/AM PRESET MEMORY, SEEK (BK) (GB) (BB)
157	1732-04301	INDICATOR 4/8
158	1732-05401	INDICATOR
160	2112-11762	SPONGE, PANEL
179	2240-7209	HOLDER
180	2240-7322	HOLDER (UA) (G)
180A	2240-7333	HOLDER (BK) (GB) (BB)
181	2240-7323	HOLDER (UA) (G)
181A	2240-7332	HOLDER (BK) (GB) (BB)
182	2240-7324	HOLDER (UA) (G)
182A	2240-7337	HOLDER (BK) (GB) (BB)
185	2240-7341	HOLDER (UA) (G)
185A	2240-7342	HOLDER (BK) (GB) (BB)

IC TERMINAL FUNCTIONS

	Terminal number	Port name	Terminal code	I/O	Outline of functions	
					Segment name COM1	Segment name COM2
	1	S7	S7	O	Received frequency display	Point 2 on level meter
	2	S8	S8	O	Received frequency display	Received frequency display
	3	S9	S9	O	Point 1 on level meter	Received frequency display
	4	S10	S10	O	Received frequency display	Received frequency display
	5	S11	S11	O	Received frequency display	Received frequency display
	6	S12	S12	O	Received frequency display	Received frequency display
	7	S13	S13	O	Received frequency display	Received frequency display
	8	S14	S14	O	Received frequency display	Received frequency display
	9	S15	S15	O	Received frequency display	Received frequency display
	10	S16	S16	O	Received frequency display	Received frequency display
	11	S17	S17	O	Received frequency display	Received frequency display
	12	S18	S18	O	Received frequency display	Received frequency display
	13	S19	S19	O	Received frequency display	Received frequency display
	14	S20	S20	O	Received frequency display	Received frequency display
IC701	15	S21	S21	O	Received frequency display	Received frequency display
	16	S22	S22	O	Point 5 on level meter	Store mode (MEMORY)
	17	S23	S23	O		Received frequency display
	18	S24	S24	O	Received frequency display	Received frequency display
	19	S25	S25	O	MW band	FM stereo
	20	S26	S26	O	MW band	FM band
	21	S27	S27	O	LW band	SW band
	22	COM1	COM1	O	Common 1	
	23	V_{DD}	V_{DD}	I	Power supply	
	24	K0	K0	I	Key input	
	25	K1	K1	I	Key input	
	26	K2	K2	I	Key input	
	27	K3	K3	I	Key input	
	28	T0	T0	O	Key timing output	
	29	T1	T1	O	Key timing output	
	30	T2	T2	O	Key timing output	
	31	T3	T3	O	Key timing output	
	32	T4	T4	O	Key timing output	
	33	T5	T5	O	Key timing output	

	Terminal number	Port name	Terminal code	I/O	Outline of functions	
					Segment name COM1	Segment name COM2
	34	T6	T6	O	Key timing output	
	35	P3-2	AD IN	I	AD IN signal strength display input	
	36	P3-1	VREF	I	AD IN reference voltage input	
	37	P2-4	LOCAL IF	O	LOCAL DX select control output (FM, MW, LW)	
	38	P2-3	MONO	O	Forced output of mono control (FM mode only)	
	39	P2-2	AUTO-STOP	I	Stop signal input	
	40	P2-1	R-I	I	Remote control serial data input	
	41	MUTE	MUTE	O	Mute output	
	42	STB	STB	I	Strove signal input	
	43	CK	CK	I	Serial clock signal input	
IC701	44	SO	SO	O	Serial data output	
	45	SI	SI	I	Serial data input	
	46	REF	REF	I	Reference frequency input	
	47	$\overline{\text{INT}}$	$\overline{\text{INT}}$	I	Initialize input terminal	
	48	$\overline{\text{INH}}$	$\overline{\text{INH}}$	I	Normal mode (H level) Inhibit mode (L level)	
	49	TEST	TEST	I	Test terminal	
	50	XT	XT	O	Clock output	
	51	$\overline{\text{XT}}$	$\overline{\text{XT}}$	O	Clock output	
	52	GND	GND	—	GND pin	
	53	V_{DD}	V_{DD}	I	Power supply	
	54	COM2	COM2	O		Common 2
	55	S1	S1	O	Preset ch	Received frequency display
	56	S2	S2	O	Received frequency display	Received frequency display
	57	S3	S3	O	Received frequency display	Received frequency display
	58	S4	S4	O	Received frequency display	Received frequency display
	59	S5	S5	O	Point 4 on level meter	FM/SW unit
	60	S6	S6	O	Point 3 on level meter	MW/LW unit



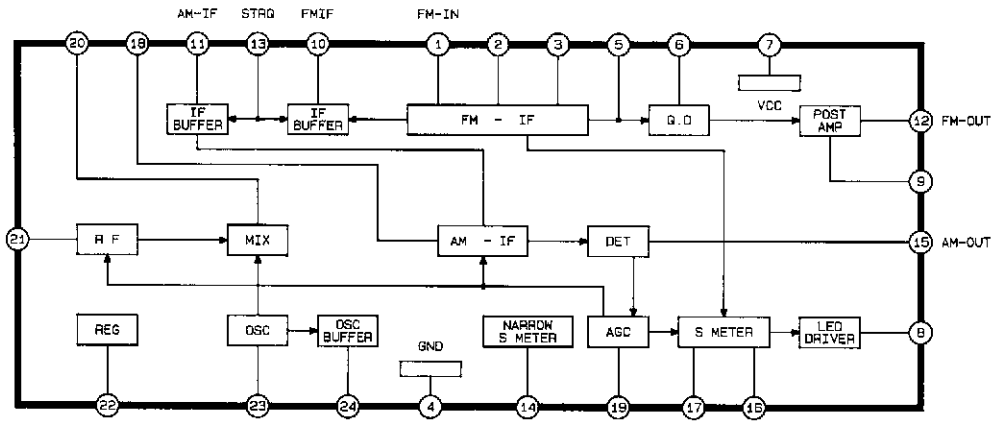


(G) : General model

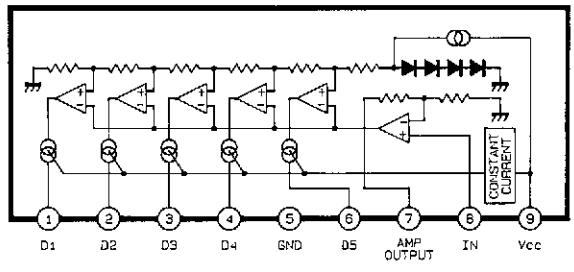
	Terminal number	Port name	Terminal code	I/O	Outline of functions
IC804	1	GND	GND	—	GND pin
	2	I/O-1	EX-OUT	O	This output terminal have no connection with Band, and reverse when EX-IN input.
	3	I/O-2	EX-RESET	I	Reset EX-OUT
	4	I/O-3	EX-IN	I	Whenever EX-IN input, EX-OUT reverse.
	5	I/O-4	Moni·en	I	Permit to select source, T1, T2, V1 or V2.
	6	I/O-5	Func·en	I	Permit to select a function from F1 through F5.
	7	I/O-6	F-Mute	O	This is the Mute output terminal when select Moni or Function.
	8	I/O-7	P-SW	I	Remote control receiver ON/OFF and P-Cont control input.
	9	I/O-8	P-CONT	O	Power supply control
	10	I/O-9	VR-UP	O	VR-UP output
	11	I/O-10	VR-DN	O	VR-DOWN output
	12	SO	SO	O	Serial data output
	13	SI	SI	I	Serial data input
	14	CK	CK	I	Serial clock signal input
	15	STB	STB	I	Strove signal input
	16	V_{DD}	V_{DD}	I	5V ± 10% power supply terminal

IC BLOCK DIAGRAM

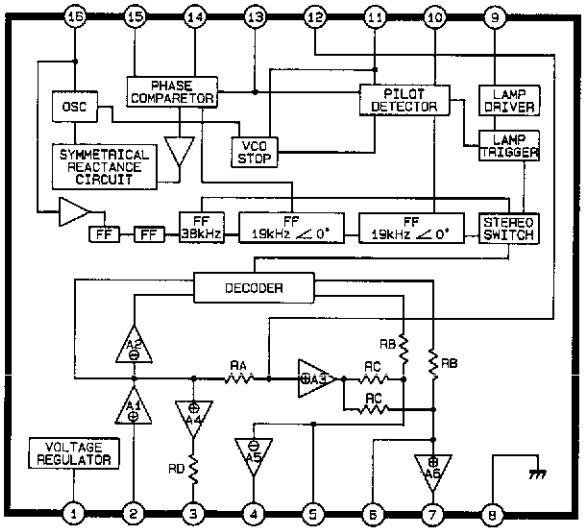
IC201 : LA1266
FM/AM IF Amp. and Det., AM Mixer and OSC



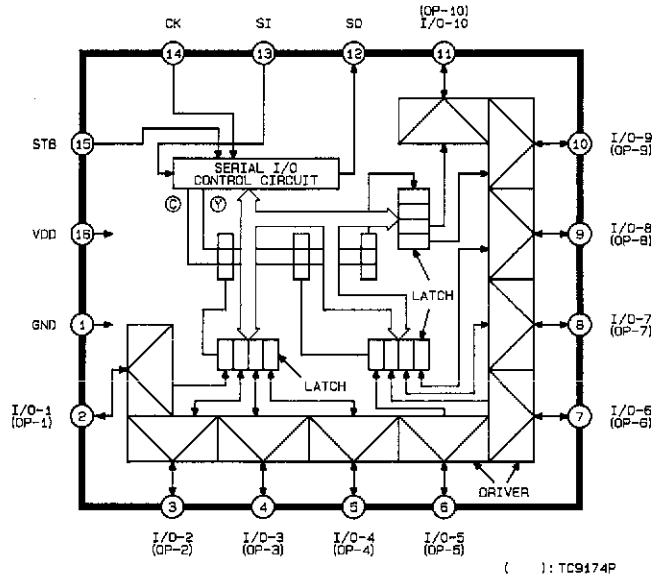
IC351 : BA6124
Indicator Driver



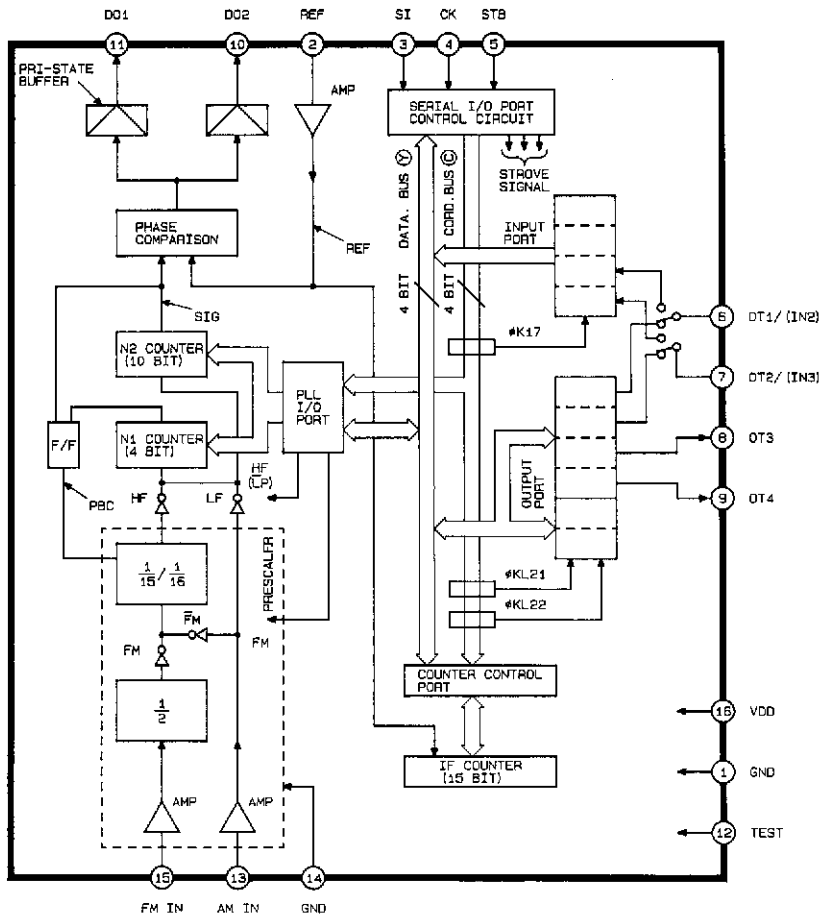
IC301 : LA3410
FM MPX



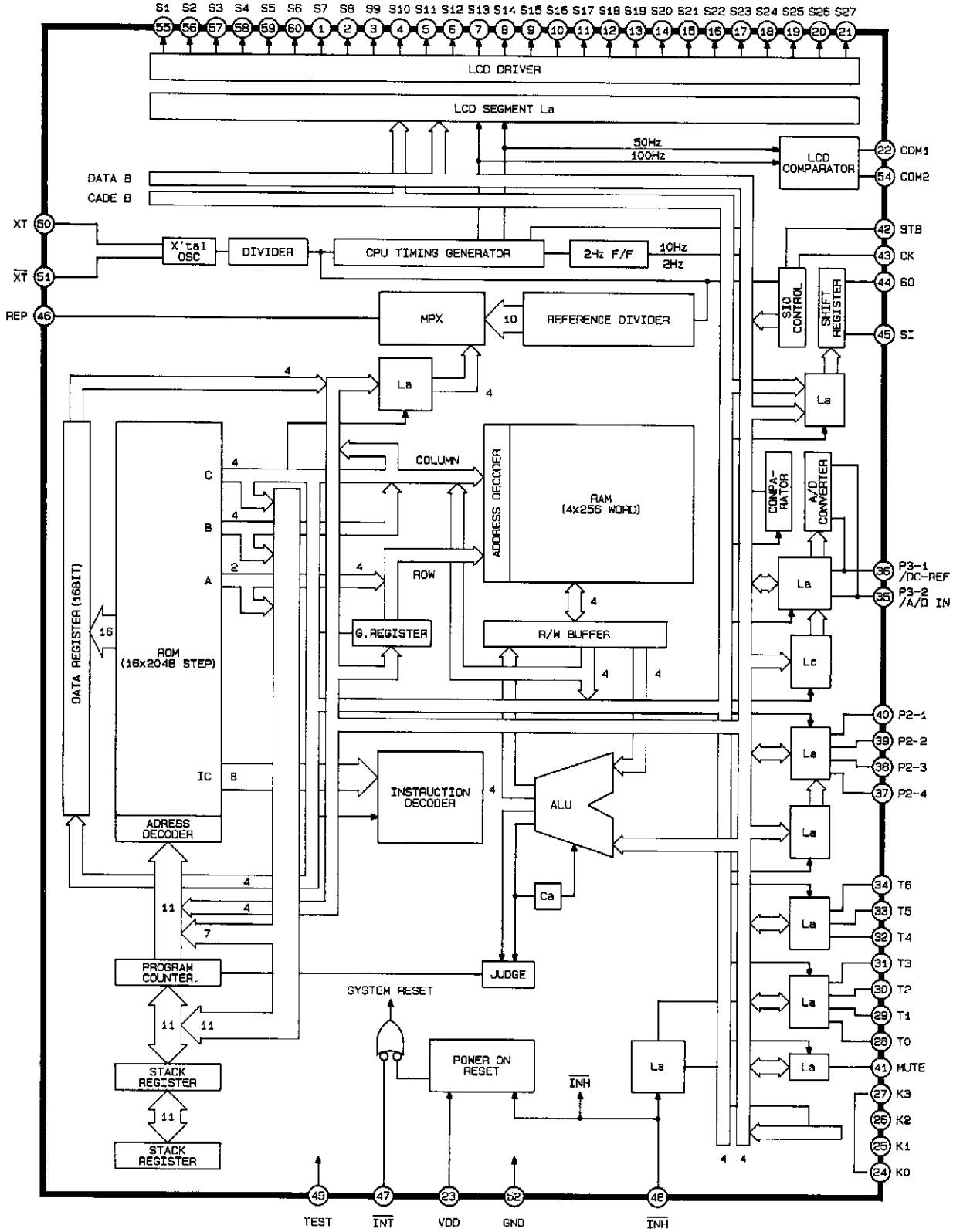
IC803 : TC9174P
IC804 : TC9173P
Audio Input Record
Out Selector



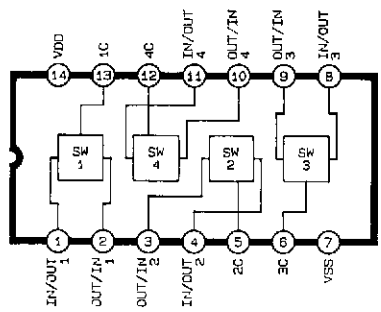
IC702 : TC9172AP
Pre Scaler



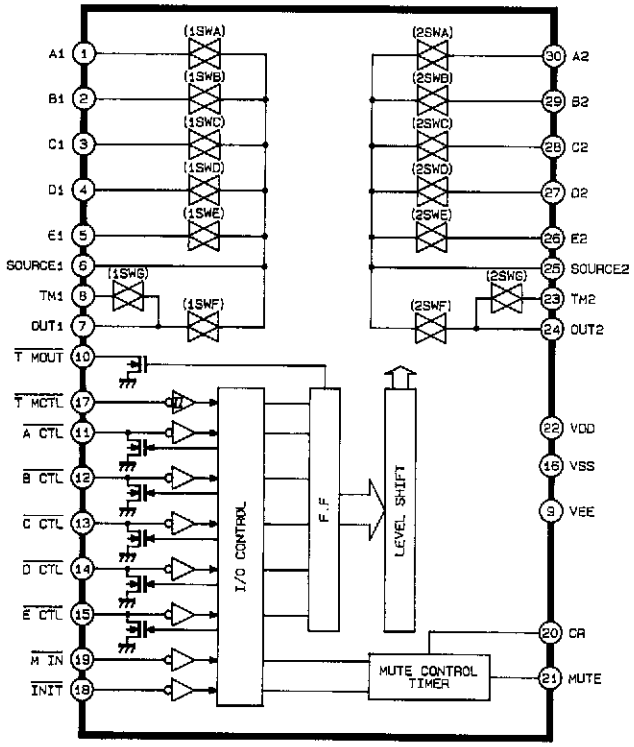
IC701 : TC9306F-025
Micro Computer



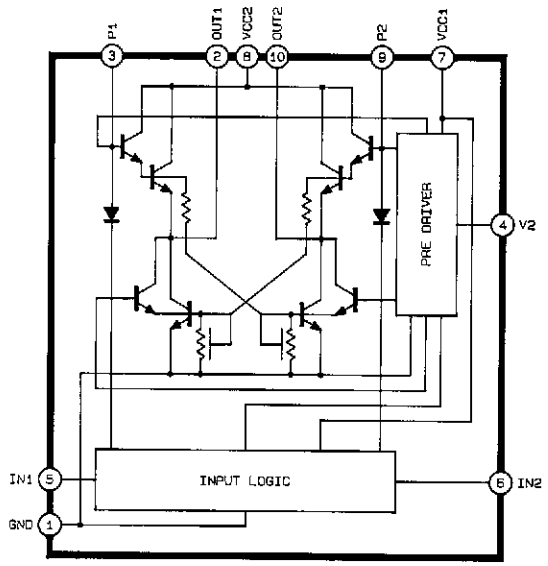
IC806, 807 : LC4966
Video Input/Record Out
Selector



IC801, 802 : LC7818
Audio Input Record
Out Selector

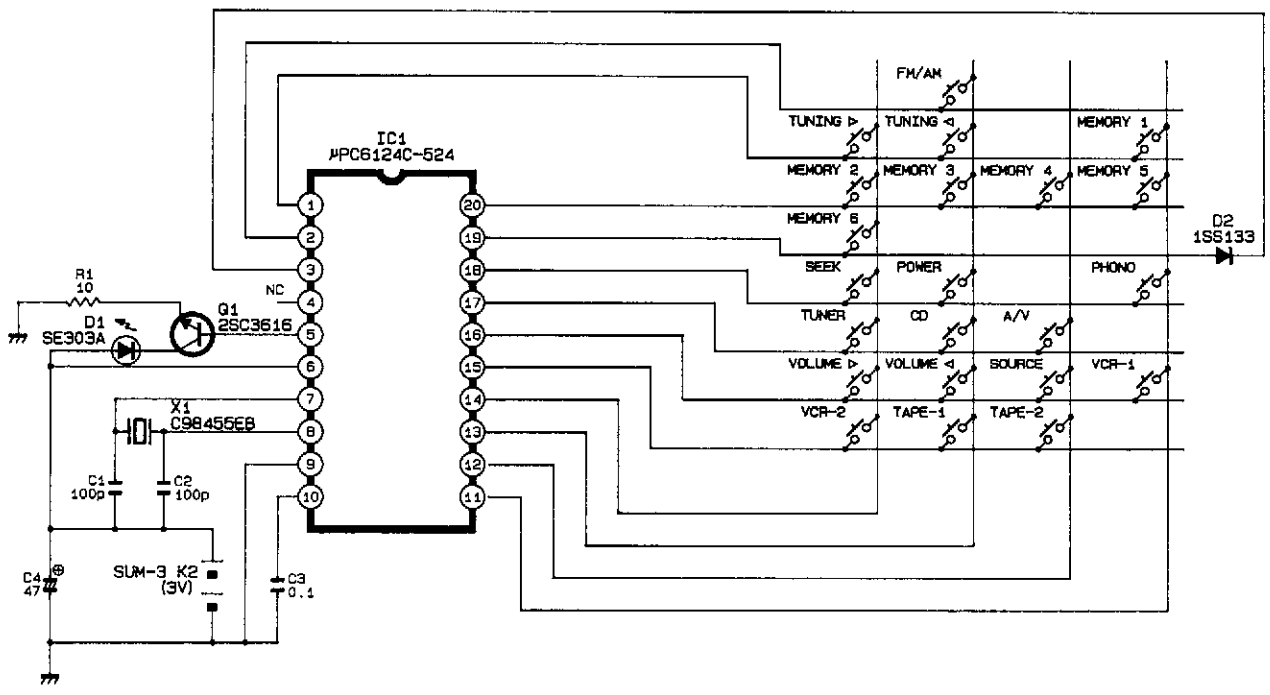


IC805 : LB1641
Volume Motor Driver



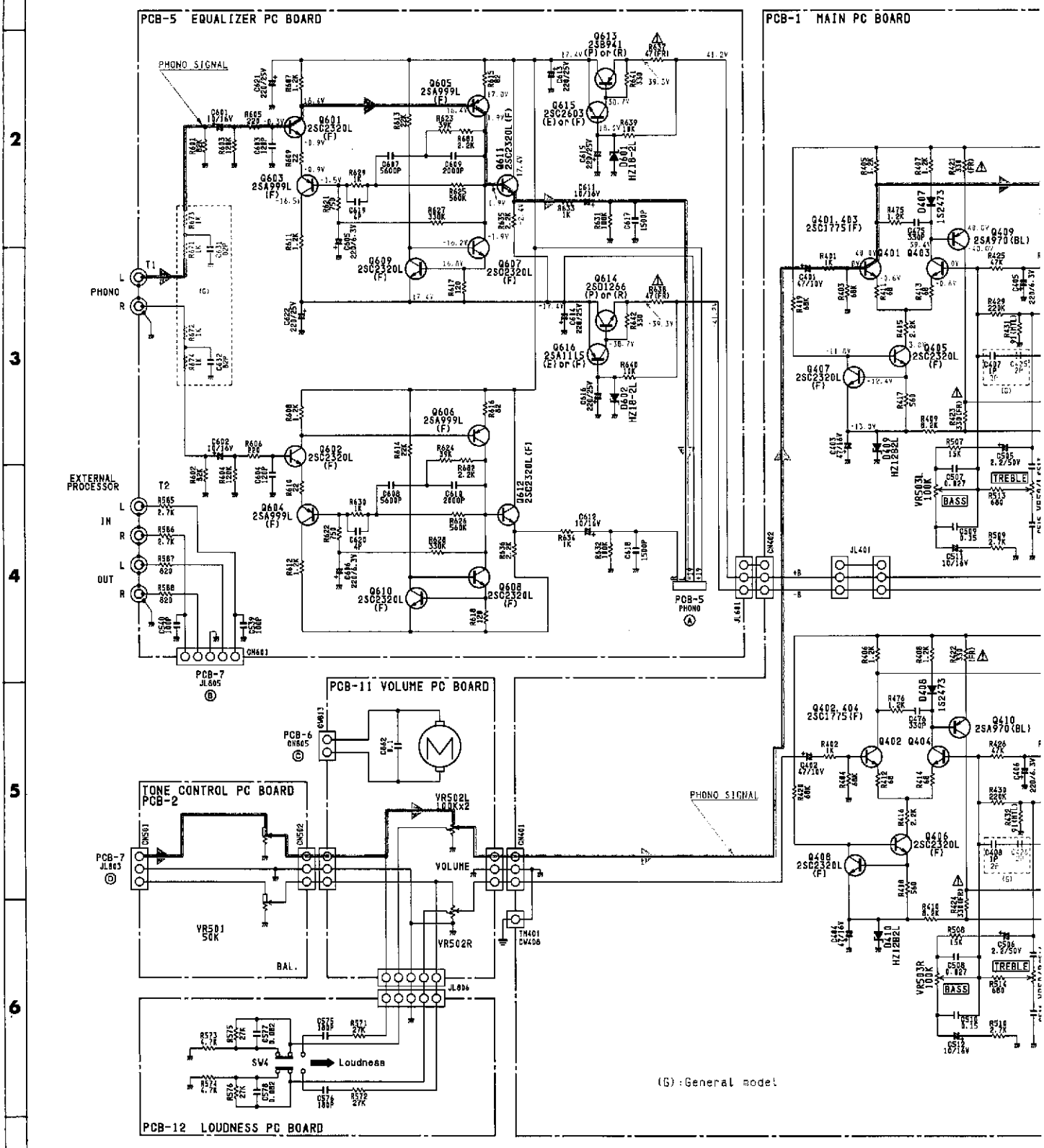
SCHEMATIC DIAGRAM

Infrared remote control

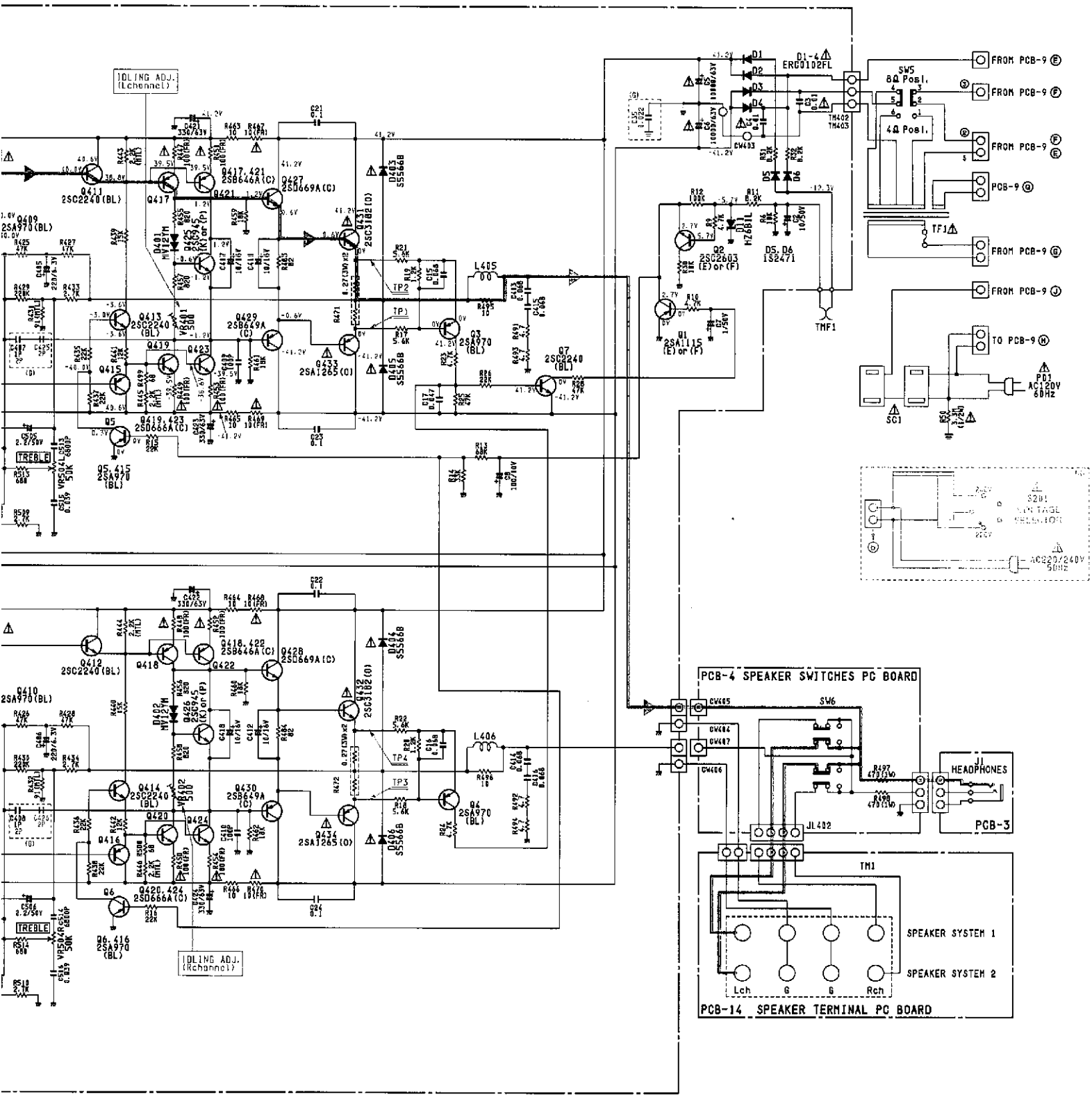


NOTE: Infrared remote control parts not available. Schematic diagram supplied for reference only.

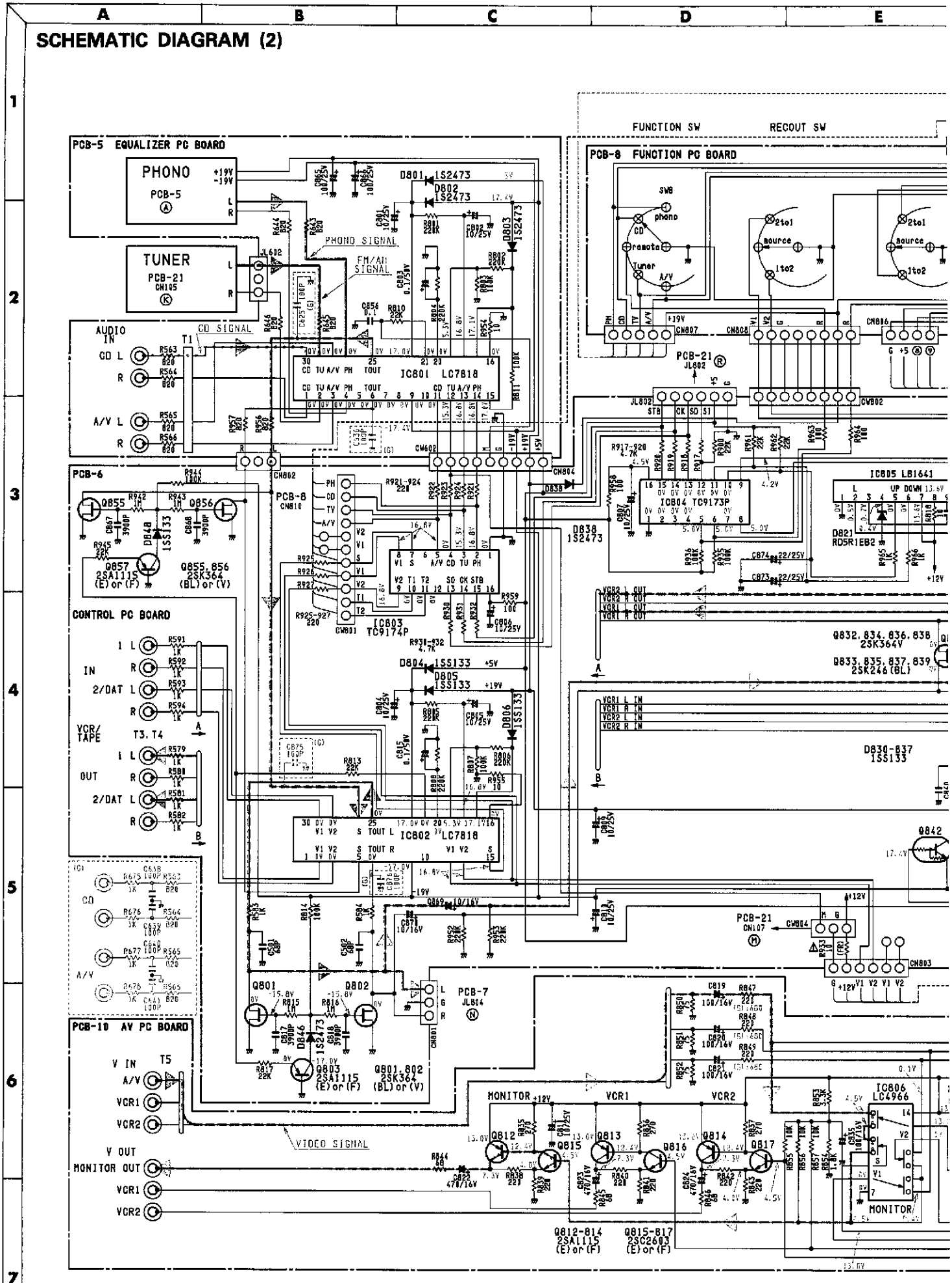
SCHEMATIC DIAGRAM (1)

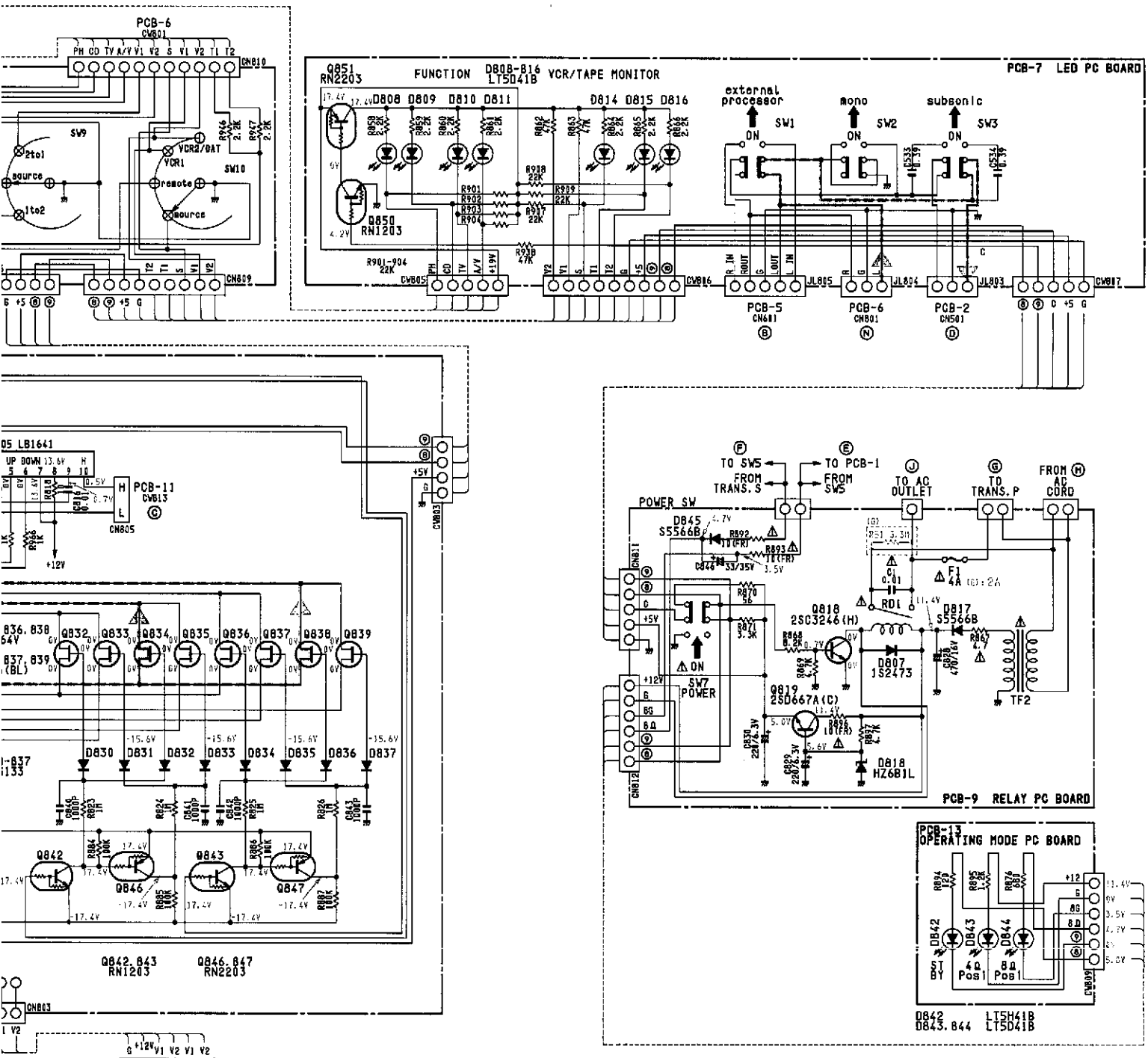


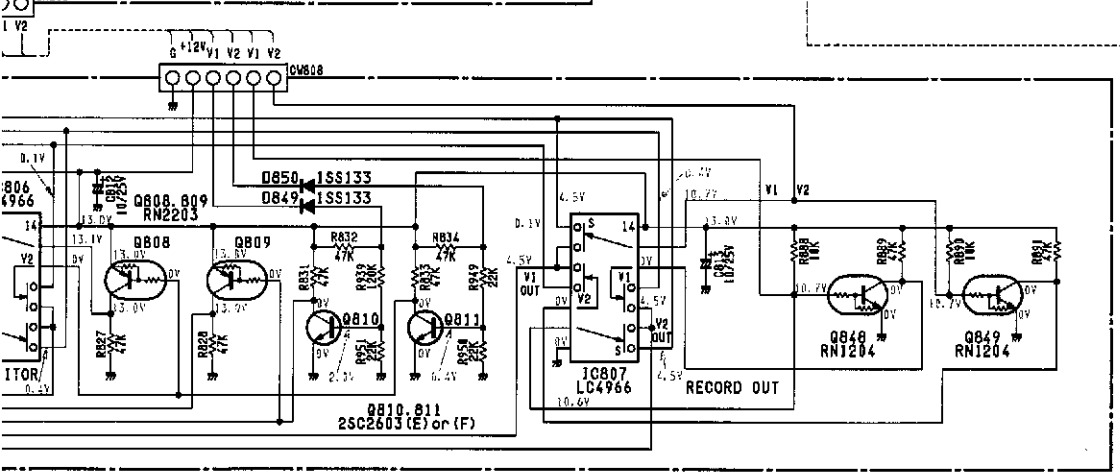
E	F	G	H	I	J


IDLING ADJ. (Lchannel)
IDLING ADJ. (Rchannel)
TREBLE
TREBLE
D1-4 ERC0102FL
SW5 8Ω Posi.
4Ω Posi.
FROM PCB-9 E
FROM PCB-9 F
FROM PCB-9 F
FROM PCB-9 E
PCB-9 G
FROM PCB-9 G
FROM PCB-9 J
TO PCB-9 H
TF1
TMF1
PD1 AC120V 60Hz
SG1
S201 VOLTAGE SELECTOR
AC220/240V 50Hz
PCB-4 SPEAKER SWITCHES PC BOARD
SW6
J1 HEADPHONES
PCB-3
JL402
TM1
SPEAKER SYSTEM 1
SPEAKER SYSTEM 2
Lch
G
G
Rch
PCB-14 SPEAKER TERMINAL PC BOARD

SCHEMATIC DIAGRAM (2)

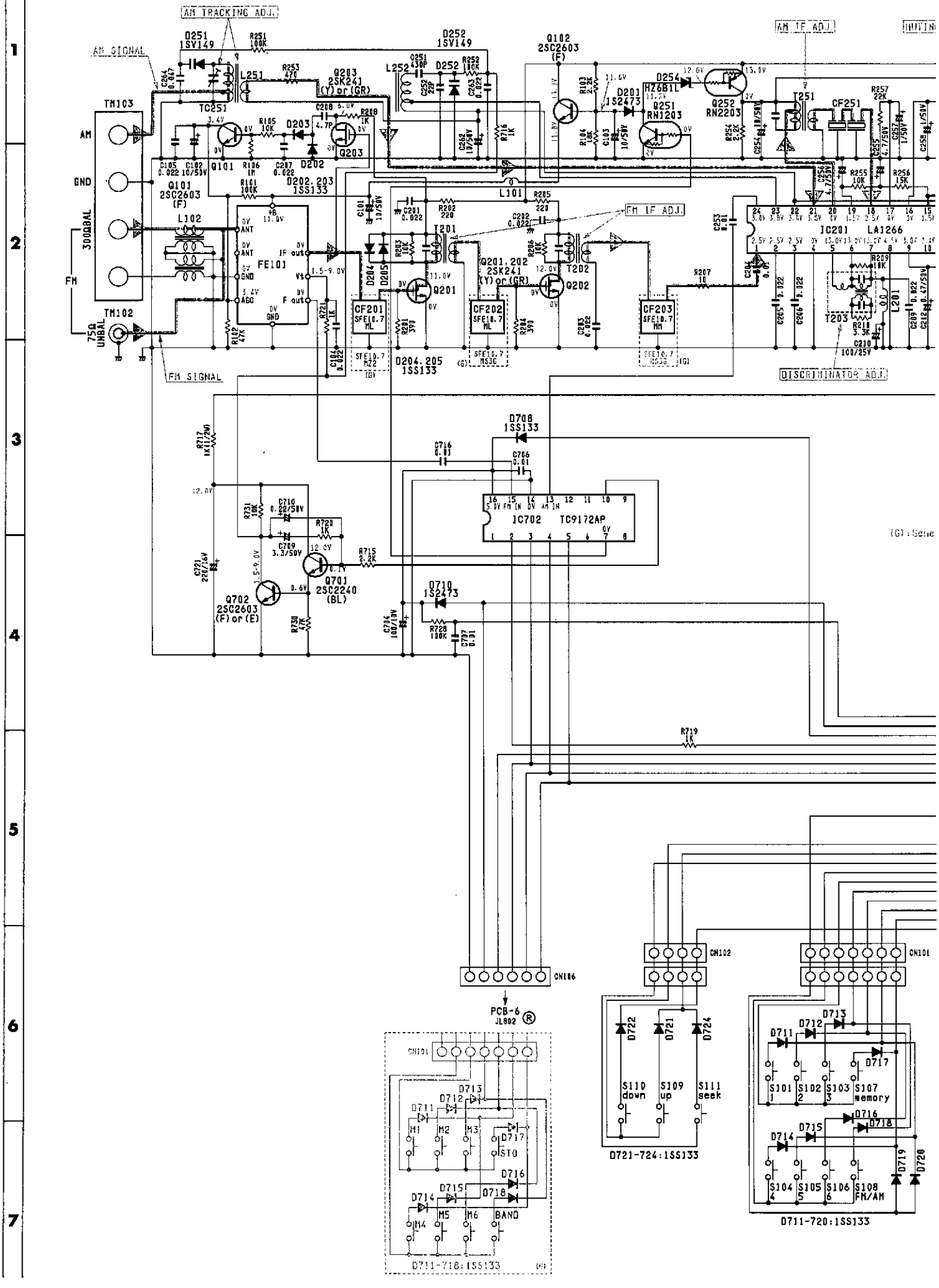


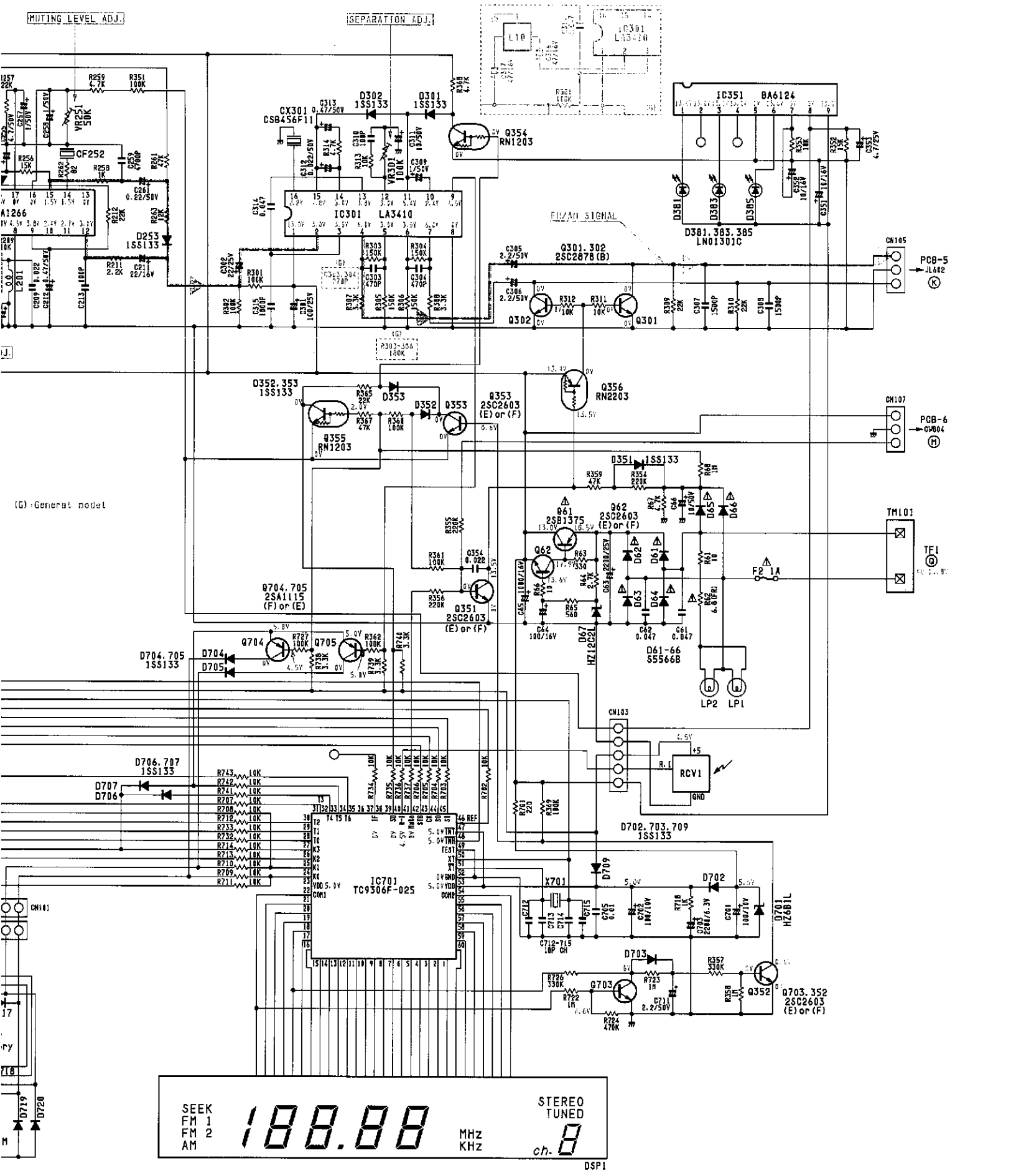


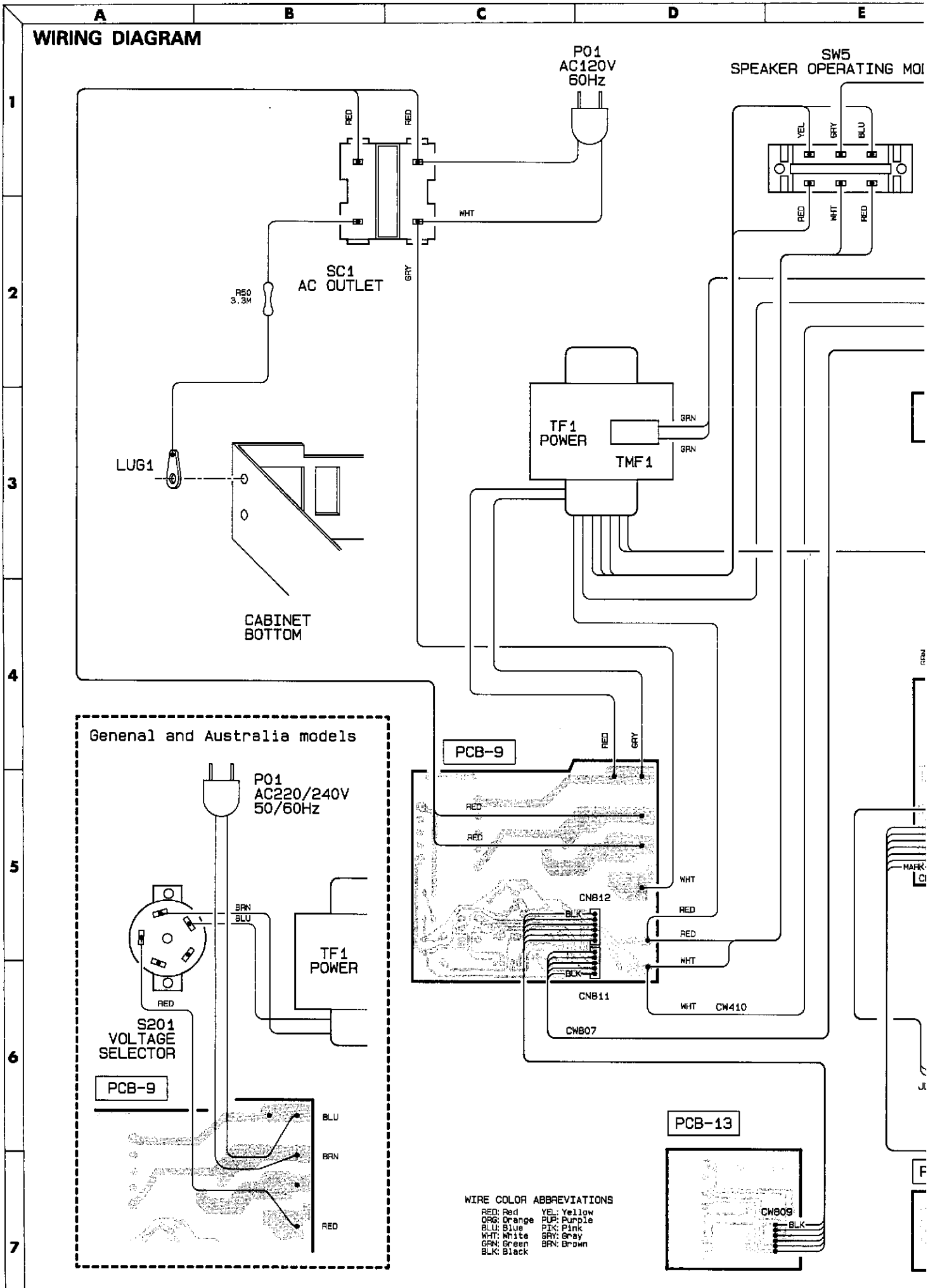


(G) : General model

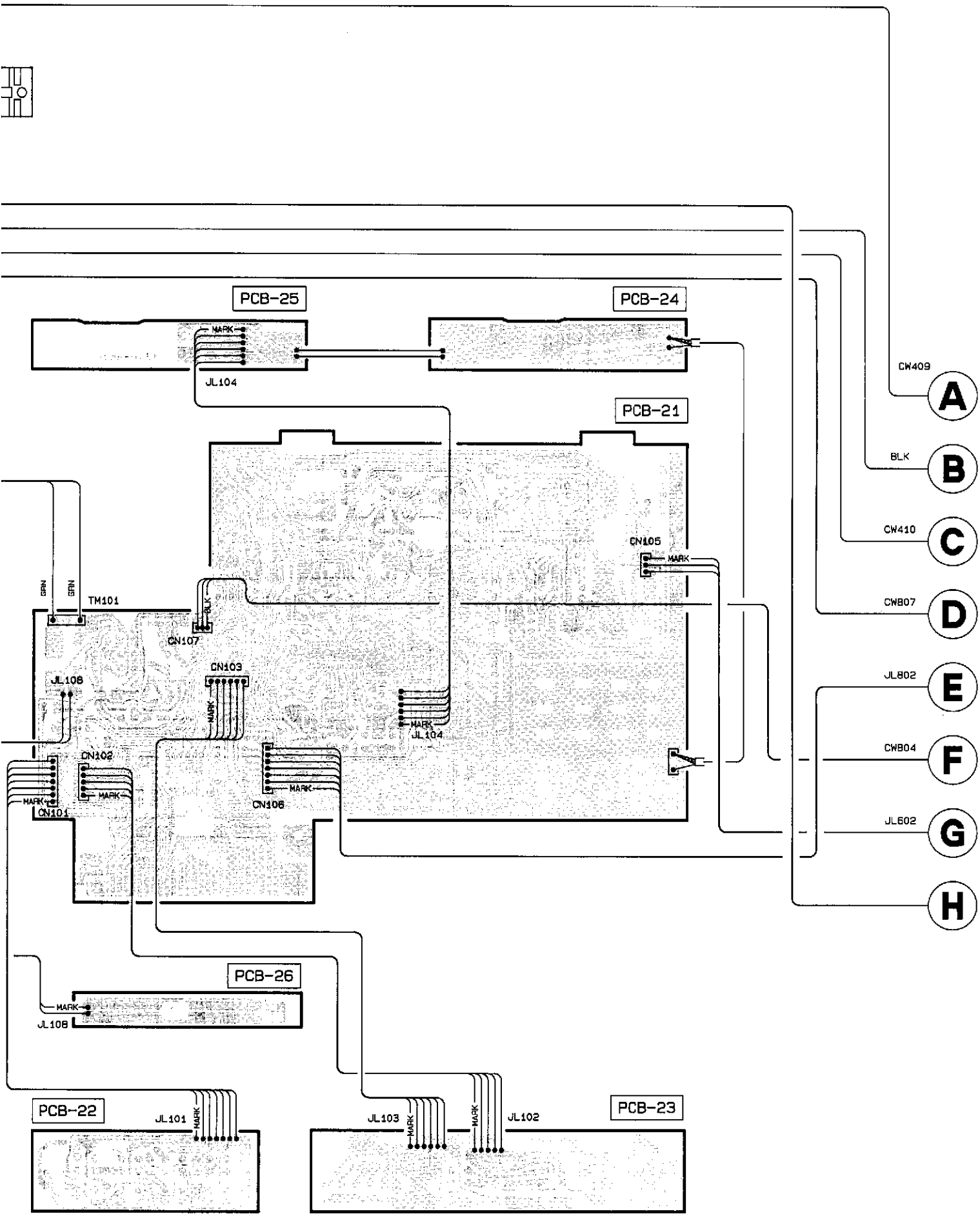
SCHEMATIC DIAGRAM (3)




E
F
G
H
I
J
MUTING LEVEL ADJ.
SEPARATION ADJ.
IC301 LA3410
IC351 BA6124
CX301 CSB456F11
CF252
VR251 50K
VR301 100K
D253 1SS133
D302 1SS133
D301 1SS133
Q354 RN1203
D381.383.385 LN01301C
FUZAI SIGNAL
Q301.302 2SC2878(B)
Q302
Q301
PCB-5
PCB-6
Q356 RN2203
D352.353 1SS133
D353
D352
Q353 2SC2603 (E) or (F)
Q355 RN1203
(G):General model
D351 1SS133
Q61 2SB1375
Q62 2SC2603 (E) or (F)
Q63
D61-66 S5566B
TM101
TF1
F2 1A
LP2
LP1
Q704.705 2SA1115 (F) or (E)
Q704
Q705
D704.705 1SS133
D704
D705
Q351 2SC2603 (E) or (F)
CN103
RCV1
D706.707 1SS133
D707
D706
IC701 TC9306F-025
X701
D709
D702
D701 HZ6B1L
D702.703.709 1SS133
D703
Q703
Q352
Q703.352 2SC2603 (E) or (F)
CN101
D719
D720
SEEK
FM 1
FM 2
AM
188.88
MHz
KHz
STEREO
TUNED
ch. 8
DSP1


A
B
C
D
E
1
2
3
4
5
6
7
WIRING DIAGRAM
P01
AC120V
60Hz
SW5
SPEAKER OPERATING MOI
RED
RED
WHT
GRY
SC1
AC OUTLET
R50
3.3M
YEL
GRY
BLU
RED
WHT
RED
LUG1
CABINET
BOTTOM
TF1
POWER
TMF1
GRN
GRN
Genenal and Australia models
P01
AC220/240V
50/60Hz
BRN
BLU
TF1
POWER
RED
S201
VOLTAGE
SELECTOR
PCB-9
BLU
BRN
RED
PCB-9
RED
GRY
RED
RED
WHT
CN812
BLK
RED
RED
WHT
BLK
CN811
WHT
CW410
CW807
PCB-13
CW809
BLK
WIRE COLOR ABBREVIATIONS
RED: Red
ORG: Orange
BLU: Blue
WHT: White
GRN: Green
BLK: Black
YEL: Yellow
PUP: Purple
PIK: Pink
GRY: Gray
BRN: Brown

NG MODE


PCB-25
PCB-24
PCB-21
PCB-26
PCB-22
PCB-23
MARK
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CW409
A
BLK
B
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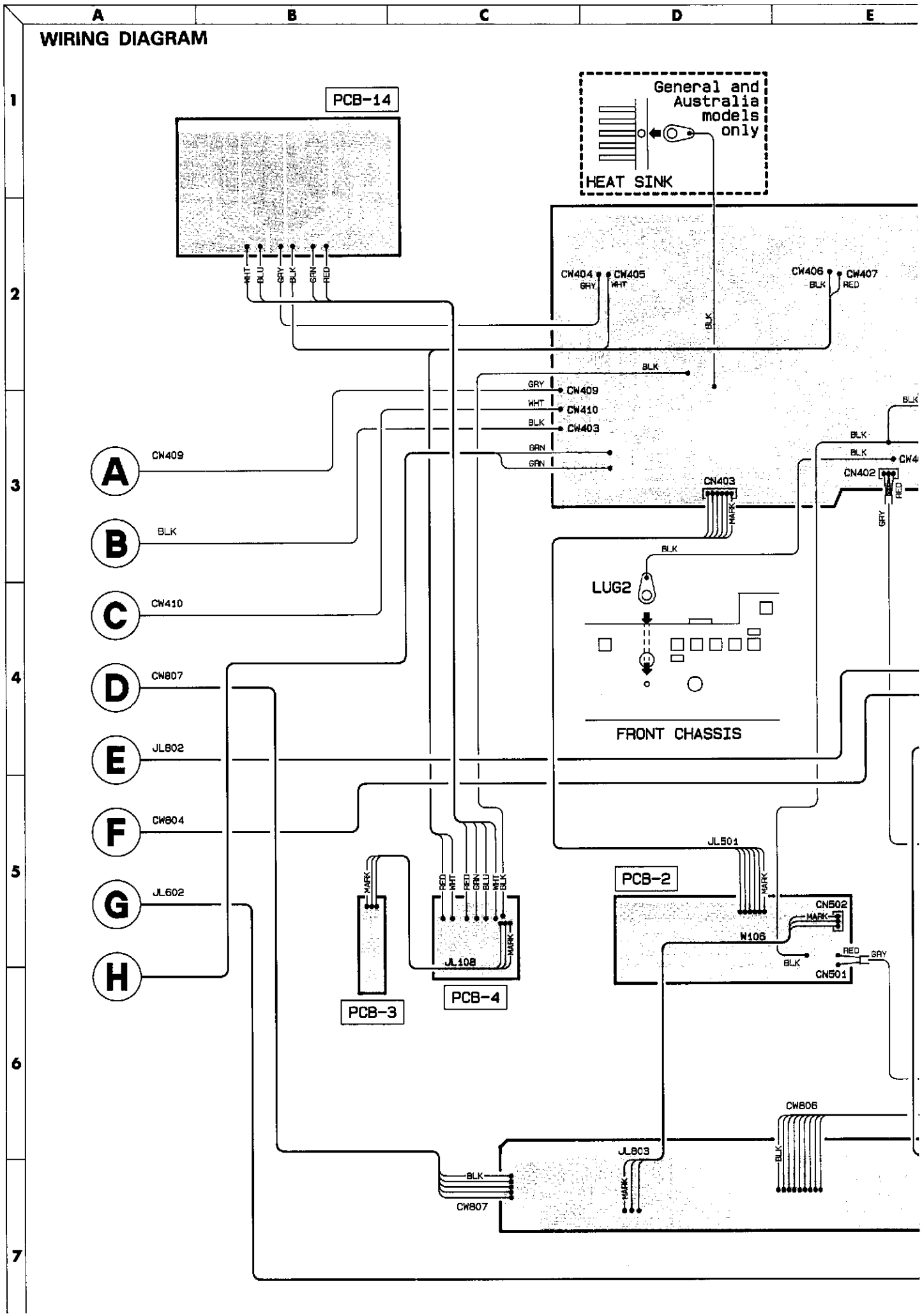
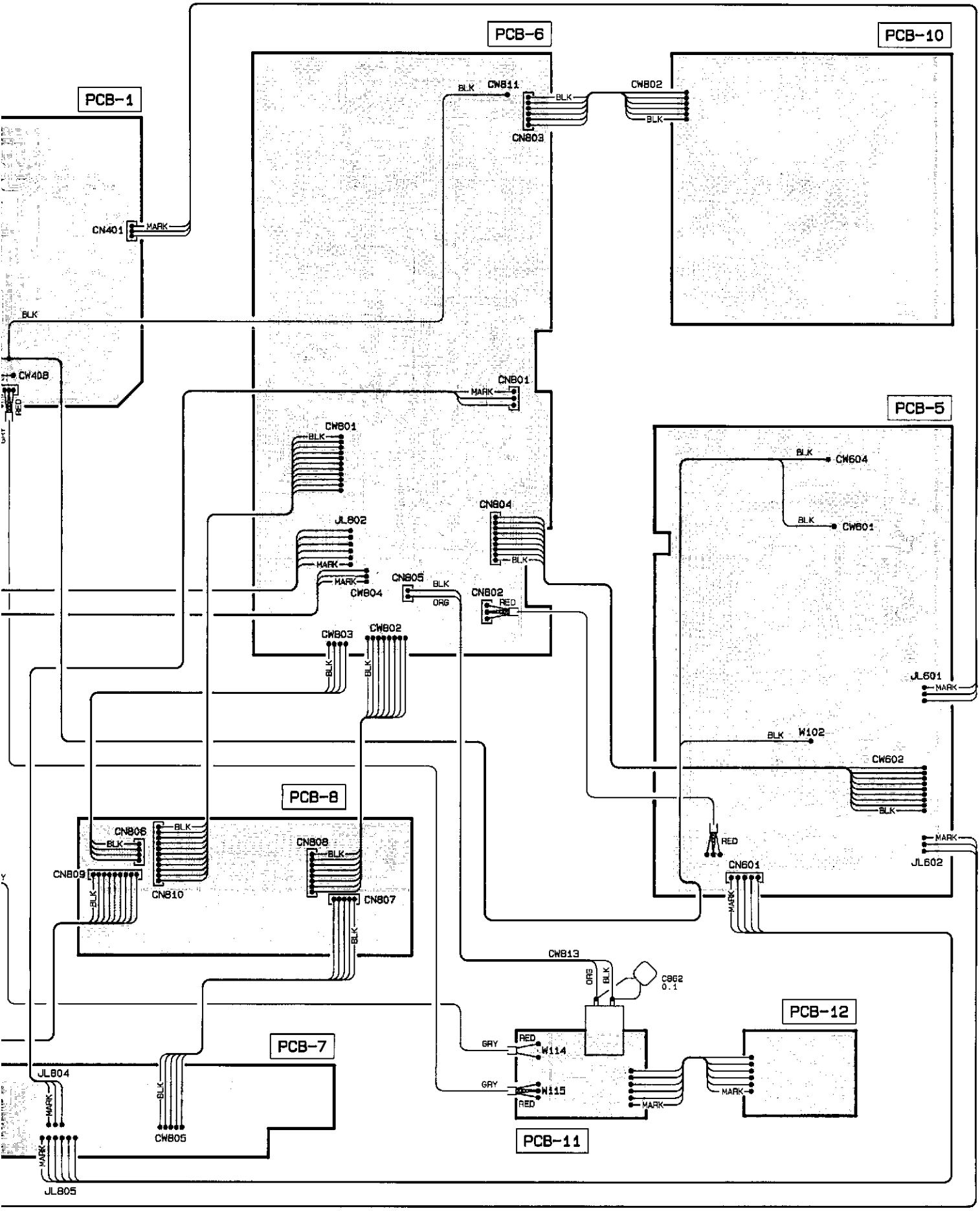
C
CW807
D
JL802
E
CW804
F
JL602
G
H
CN105
TM101
GRN
GRN
BLK
CN107
CN103
JL108
CN102
CN101
CN106
JL101
JL103
JL102

WIRING DIAGRAM



	F	G	H	I	J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PCB-6
PCB-10
PCB-5
PCB-8
PCB-7
PCB-12
PCB-11
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MARK
BLK
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CN803
CW802
CW408
RED
CN801
CW801
JL802
CN804
CW804
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ORG
CN802
CW803
JL601
W102
CW602
CN601
JL602
CN806
CN809
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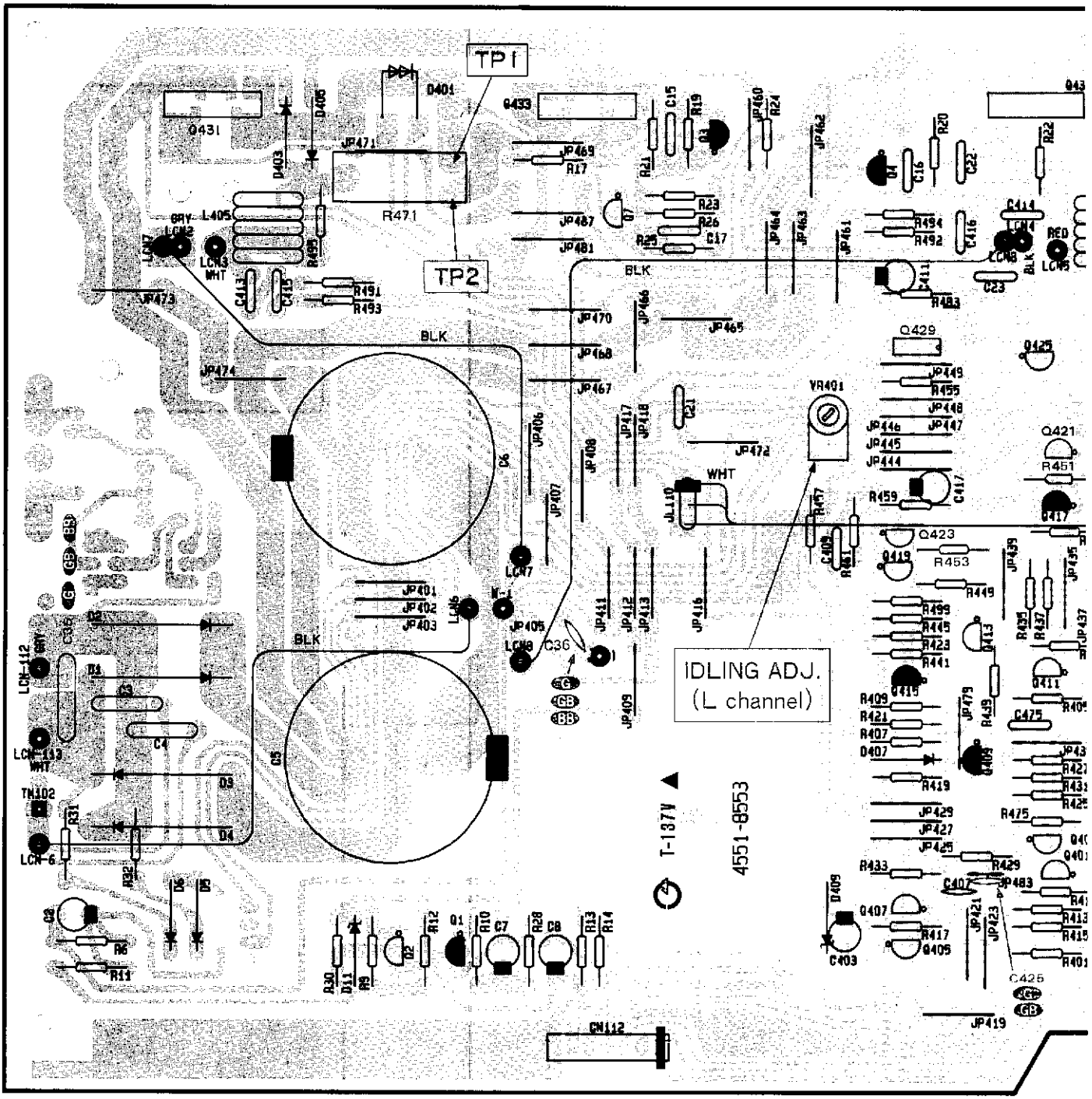
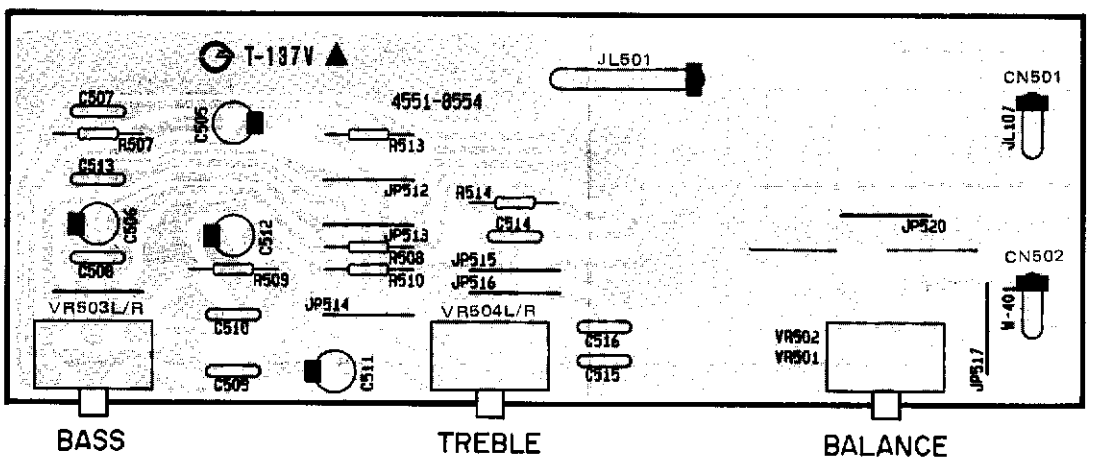
GRY
W114
W115
JL804
CW805
JL805

P.C. BOARDS (1)

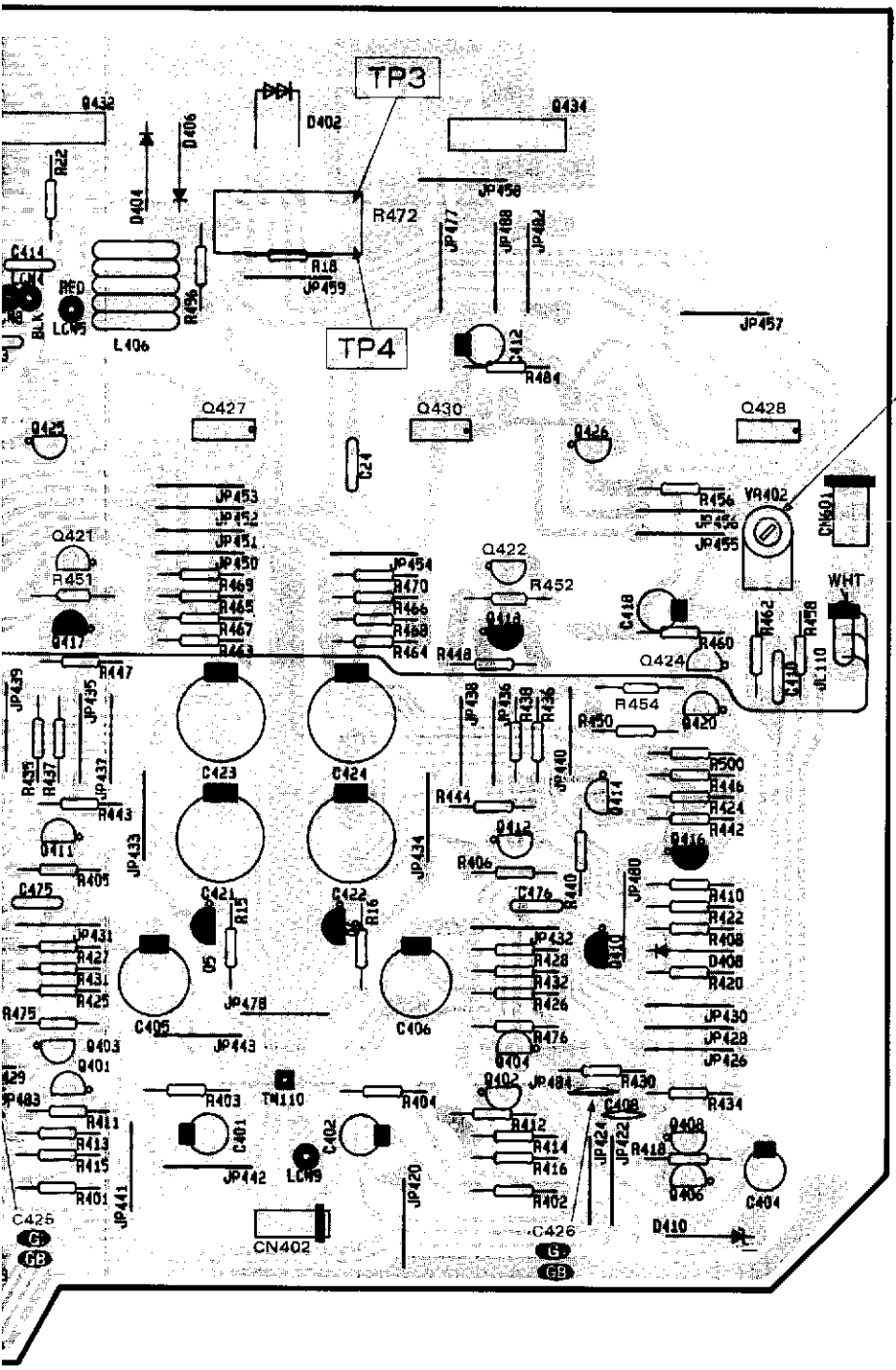


PCB-2 Tone Control P.C. Board

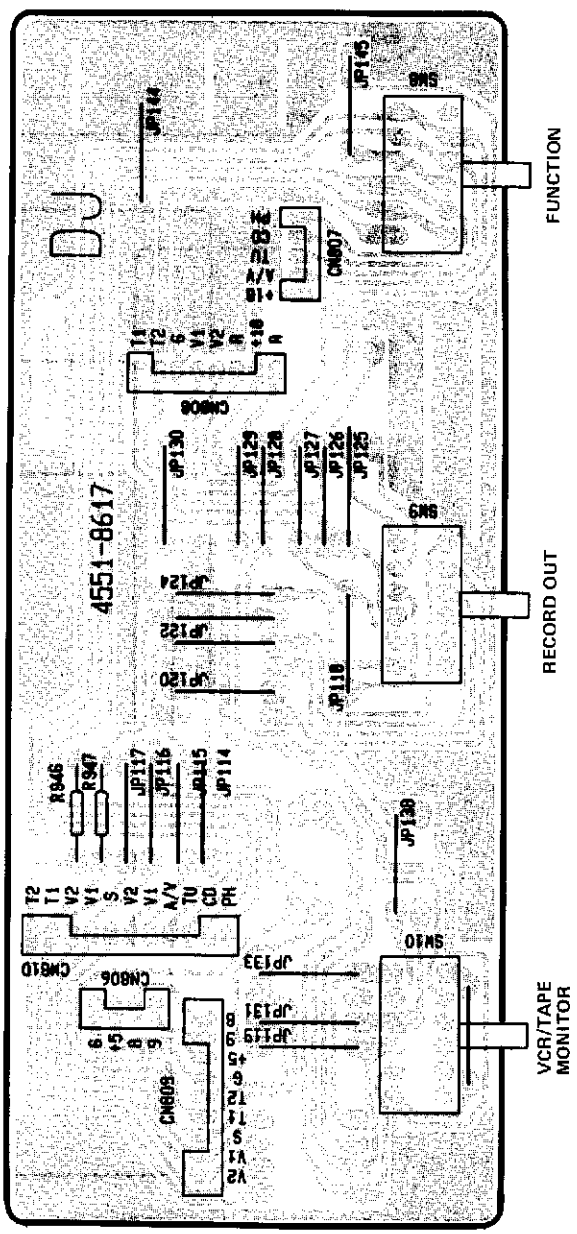
PCB-3 Head



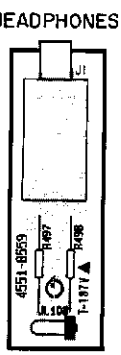
PCB-1 Main P.C. Board



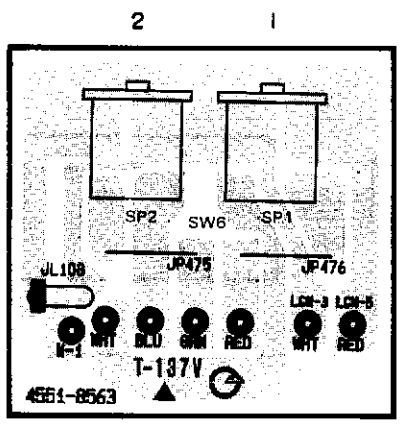
PCB-8 Function P.C. Board



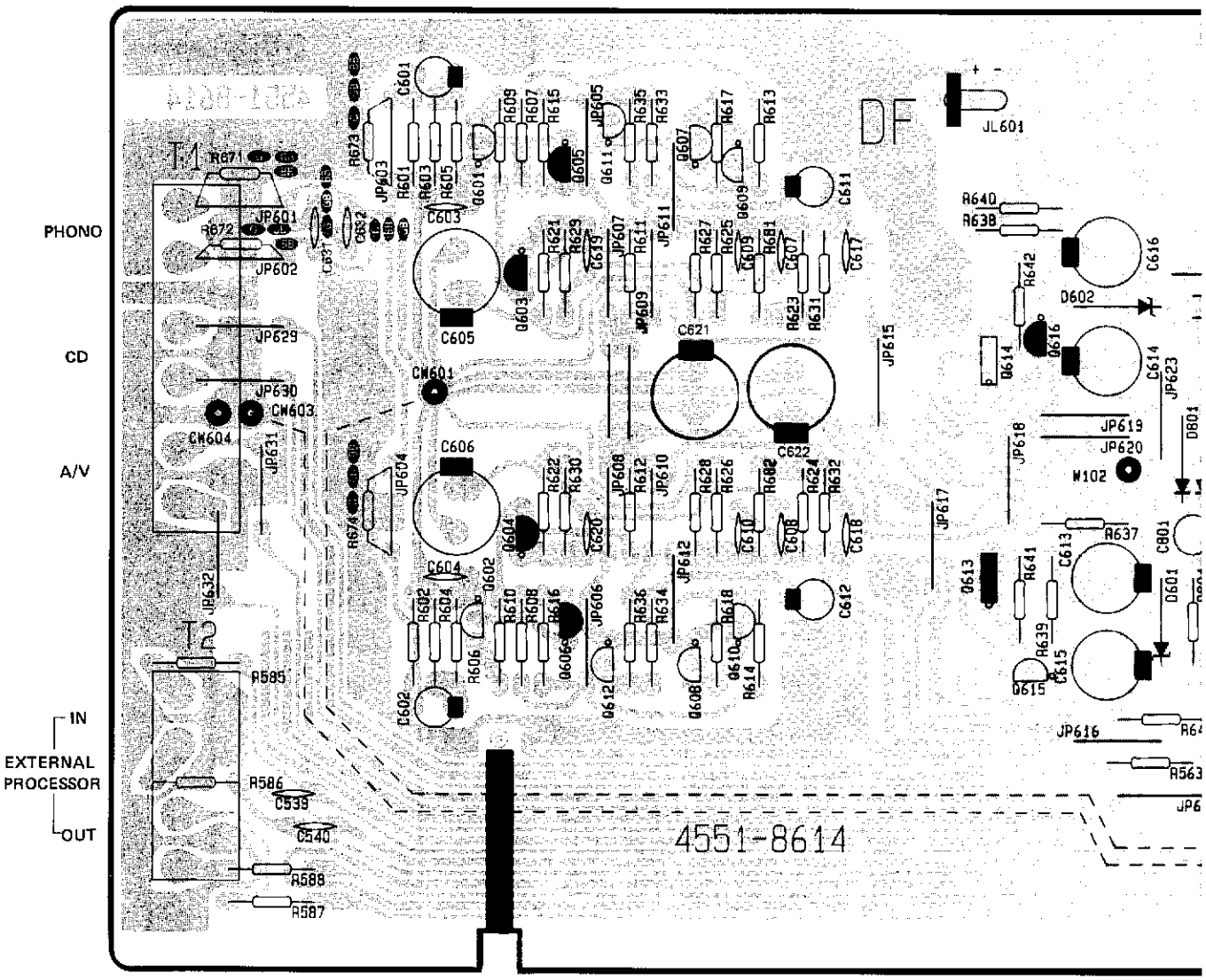
B-3 Headphone Jack P.C. Board



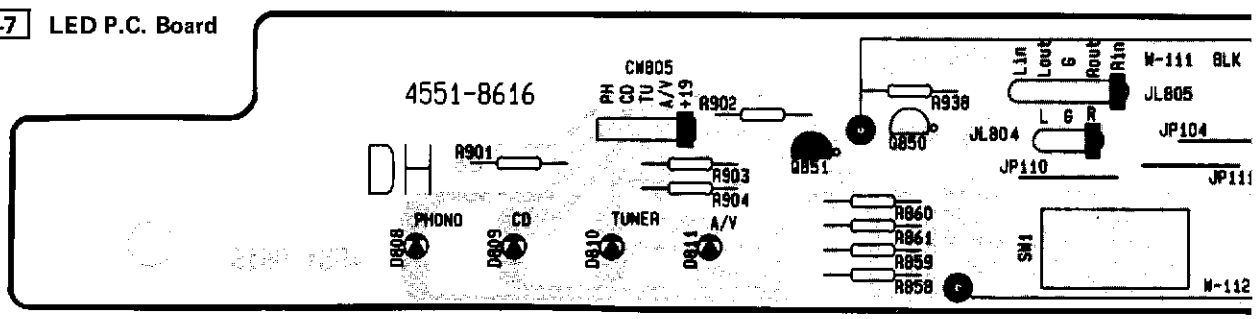
PCB-4 Speaker Swithes P.C. Board



P.C. BOARDS (2)

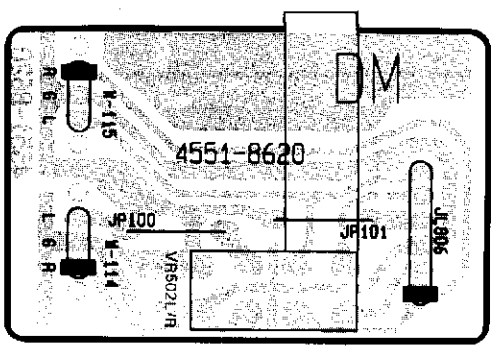


PCB-7 LED P.C. Board



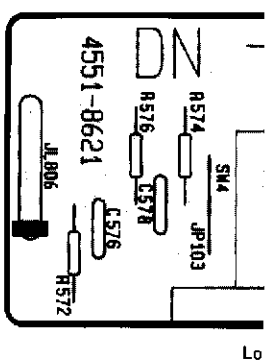
external processor

PCB-11 Volume P.C. Board



VOLUME

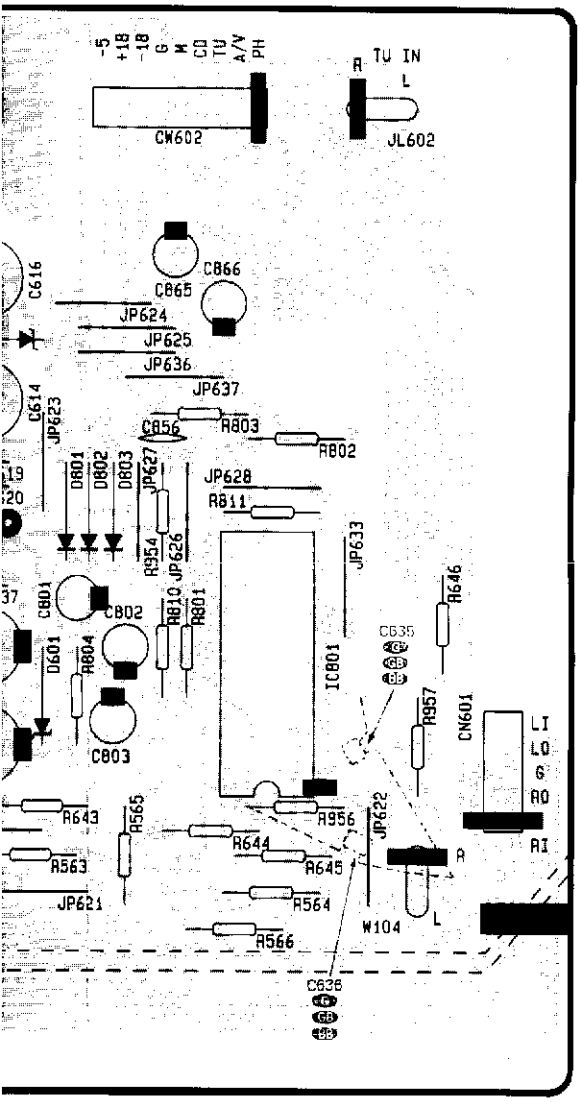
PCB-12 Loudness P.C.



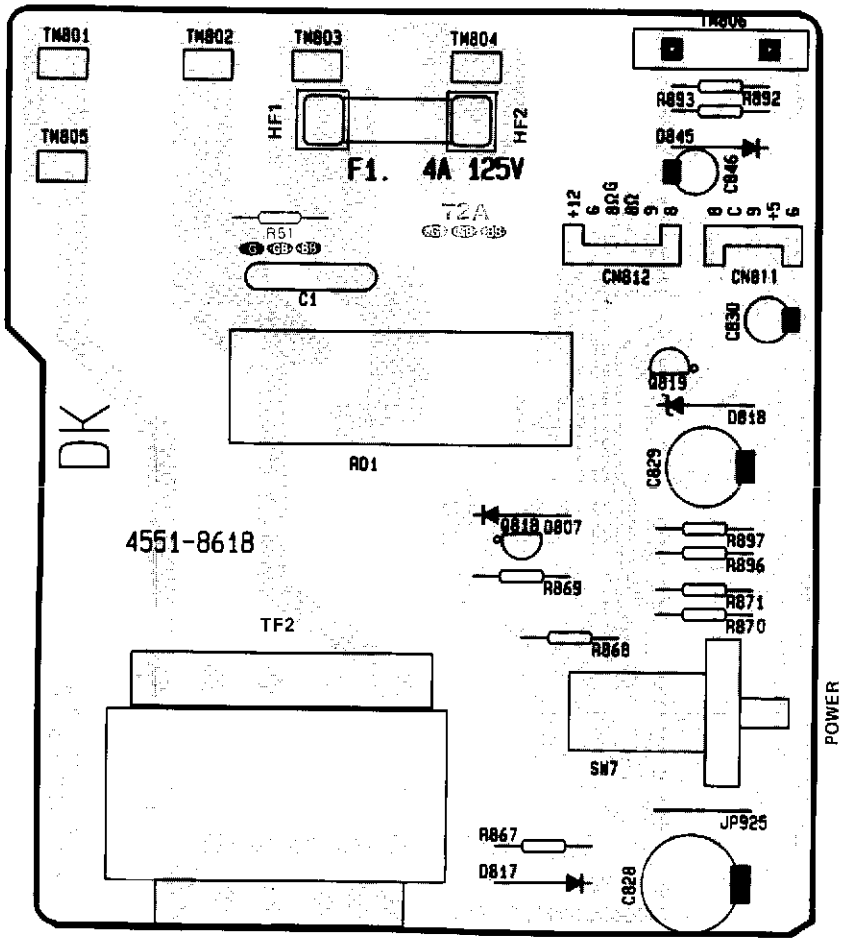
Lo

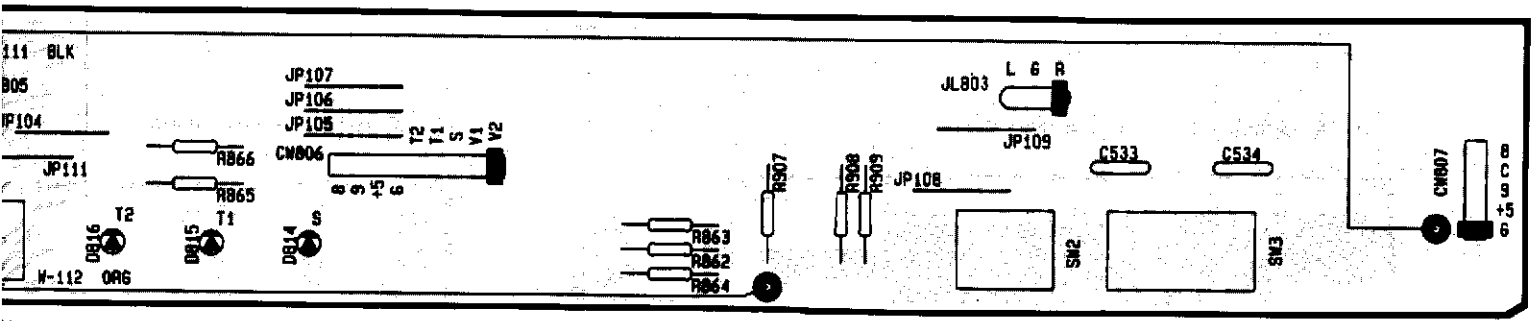
E | F | G | H | I | J

PCB-5 Equarizer P.C. Board

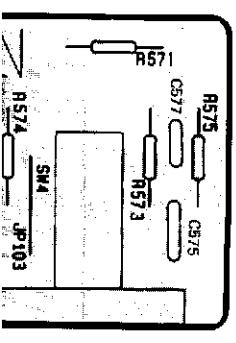


PCB-9 Lelay P.C. Board



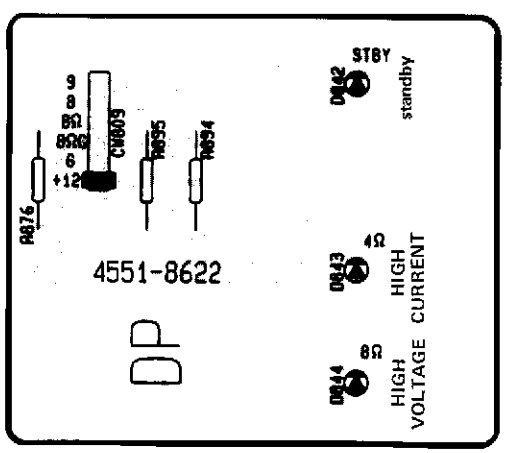


ess P.C. Board

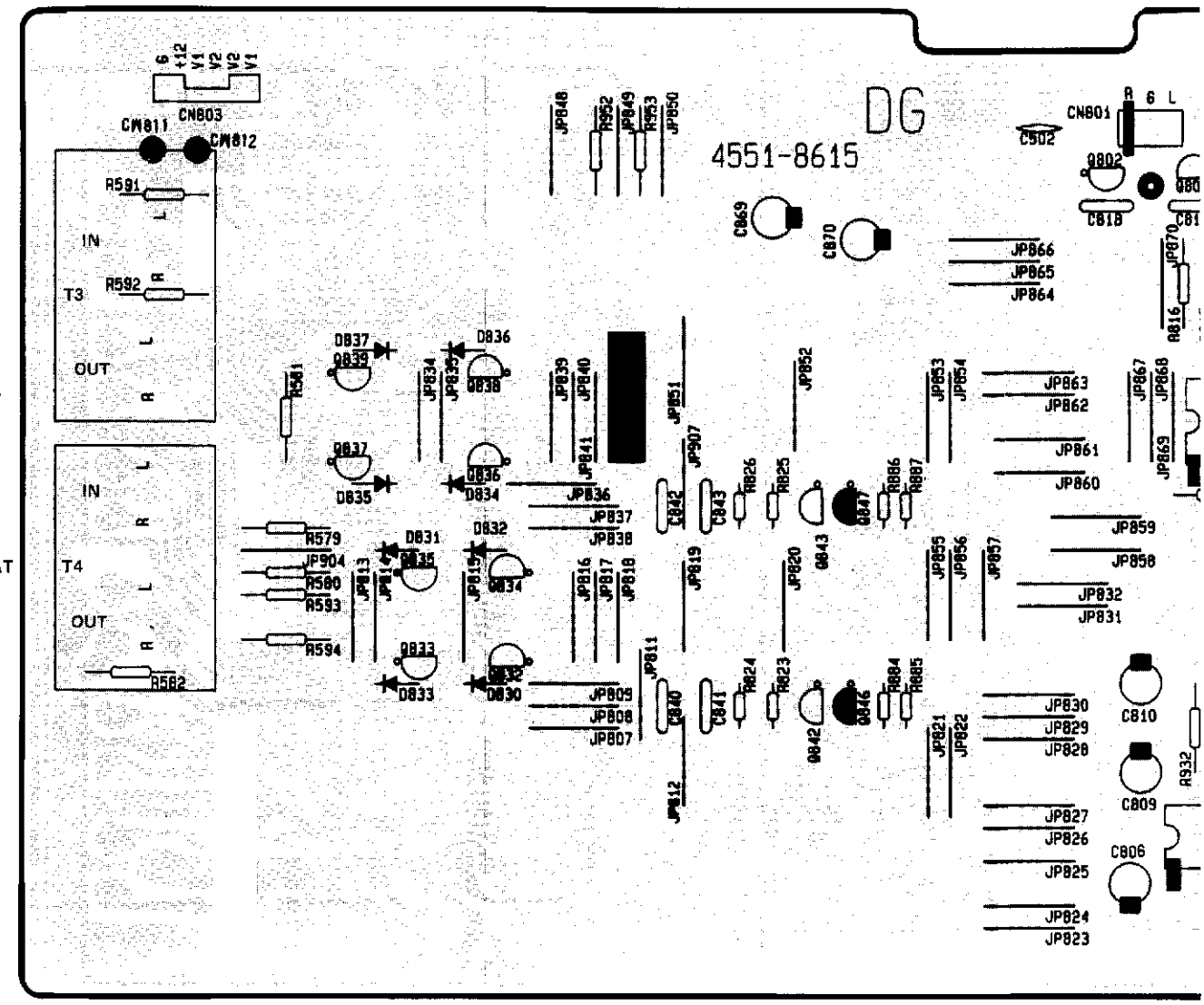


Loudness

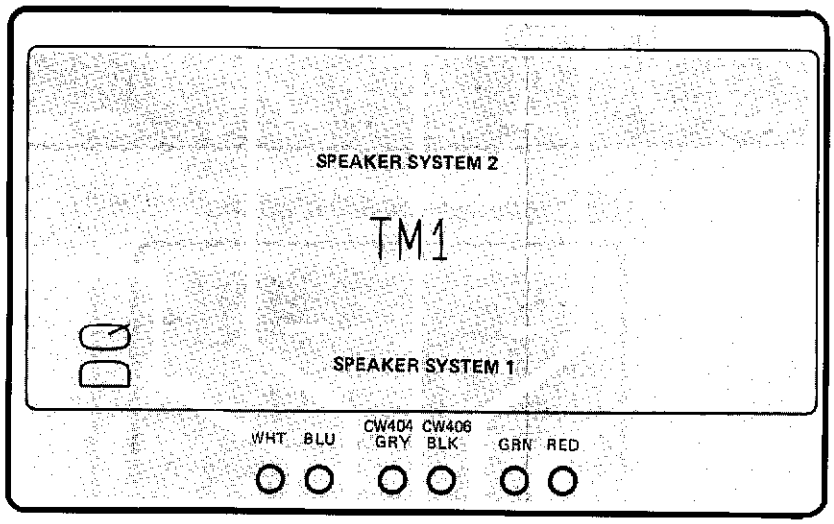
PCB-13 Operating Mode P.C. BOARD



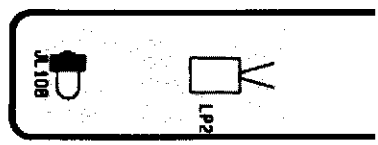
P.C. BOARDS (3)



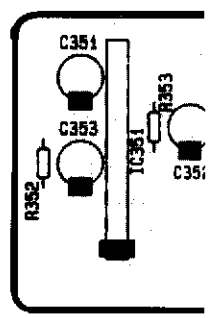
PCB-14 Speaker Terminal P.C. Board



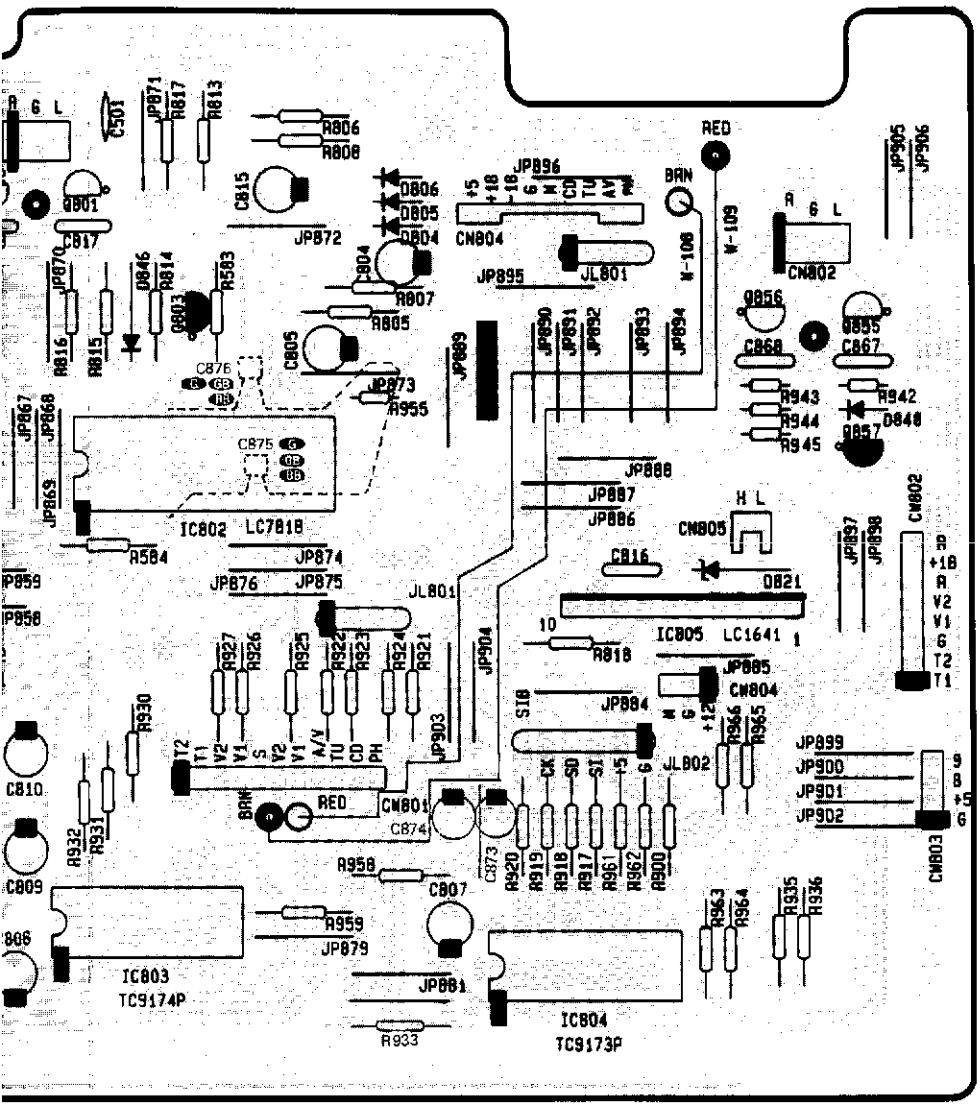
PCB-26 Lamp P.C. Board



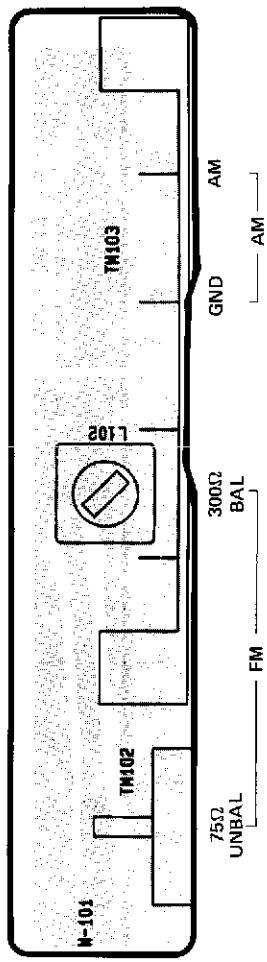
PCB-23 Tuni



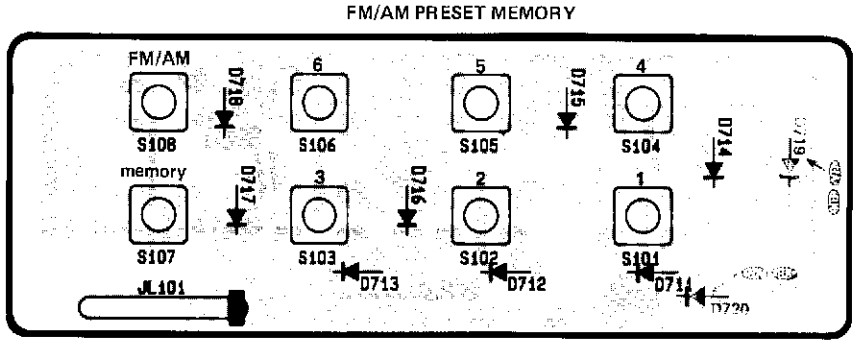
PCB-6 Control P.C. Board



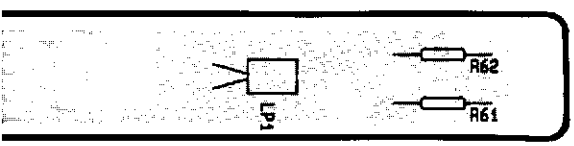
PCB-24 Antenna Terminal P.C. Board



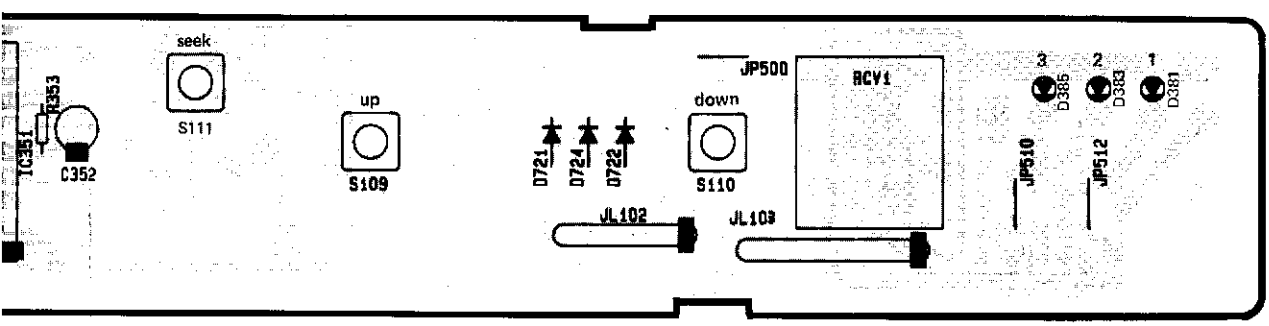
PCB-22 Tact Switches P.C. Board



ard

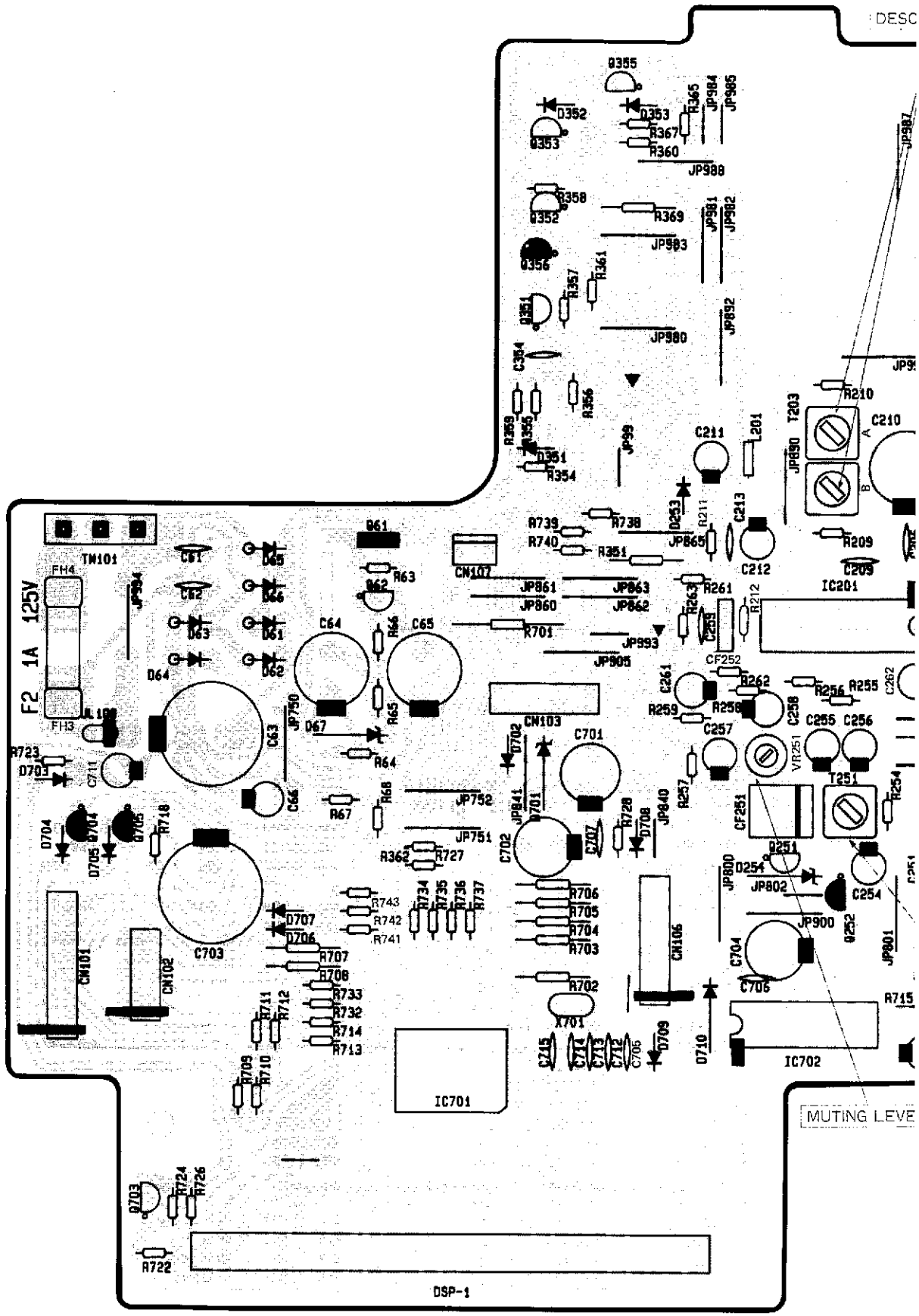


23 Tuning Switch P.C. Board

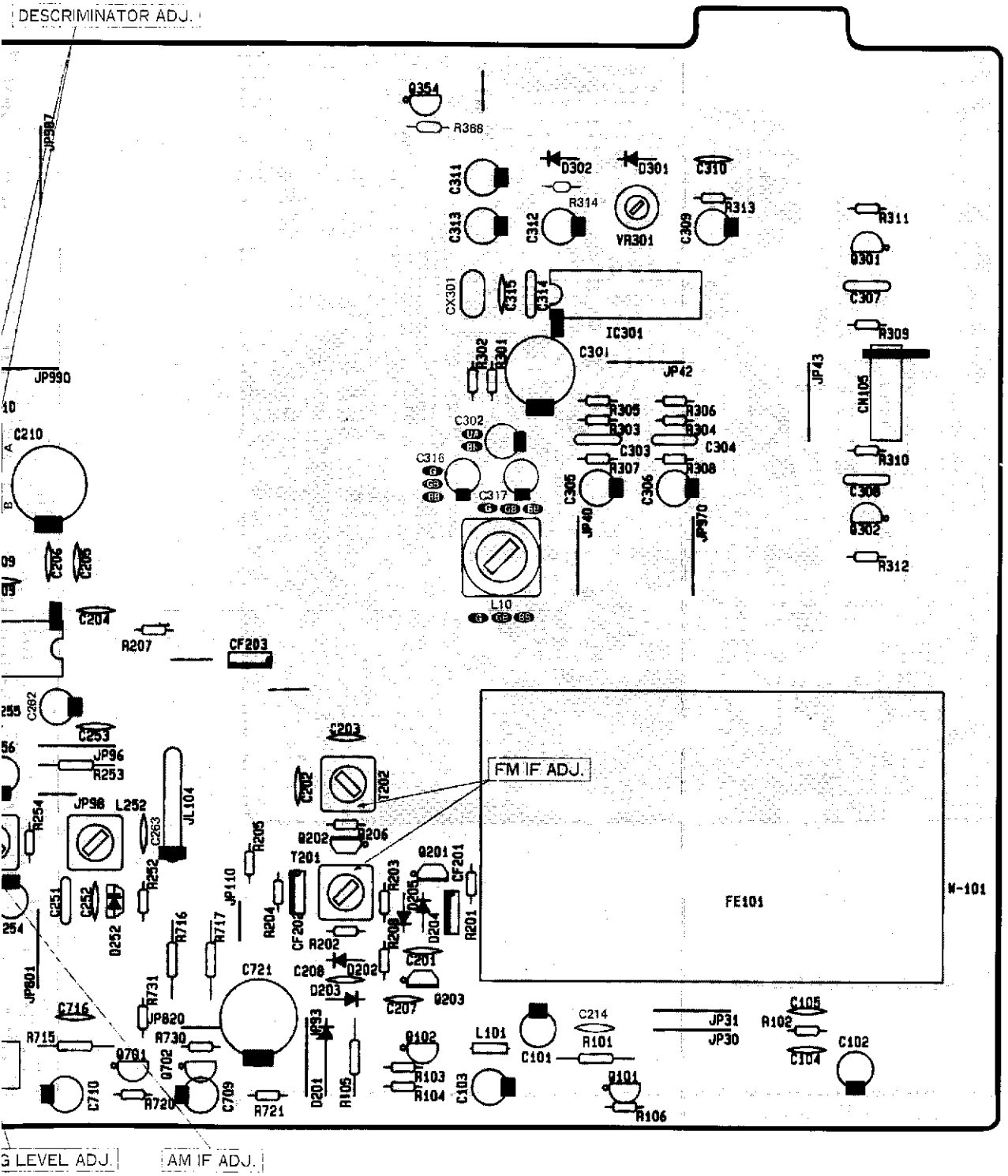


P.C. BOARDS (4)

PCB-21 Tuner P.C. Board



E	F	G	H	I	J


DESCRIMINATOR ADJ.
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G LEVEL ADJ.
AM IF ADJ.
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W-101
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VR301
L10
L101
L252
L104
T201
T202
JP987
JP990
JP96
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JP110
JP820
JP601
JP42
JP43
JP40
JP970
JP31
JP30
CF203
CF204
CF201
CX301
CN105
Q354
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Q302
Q252
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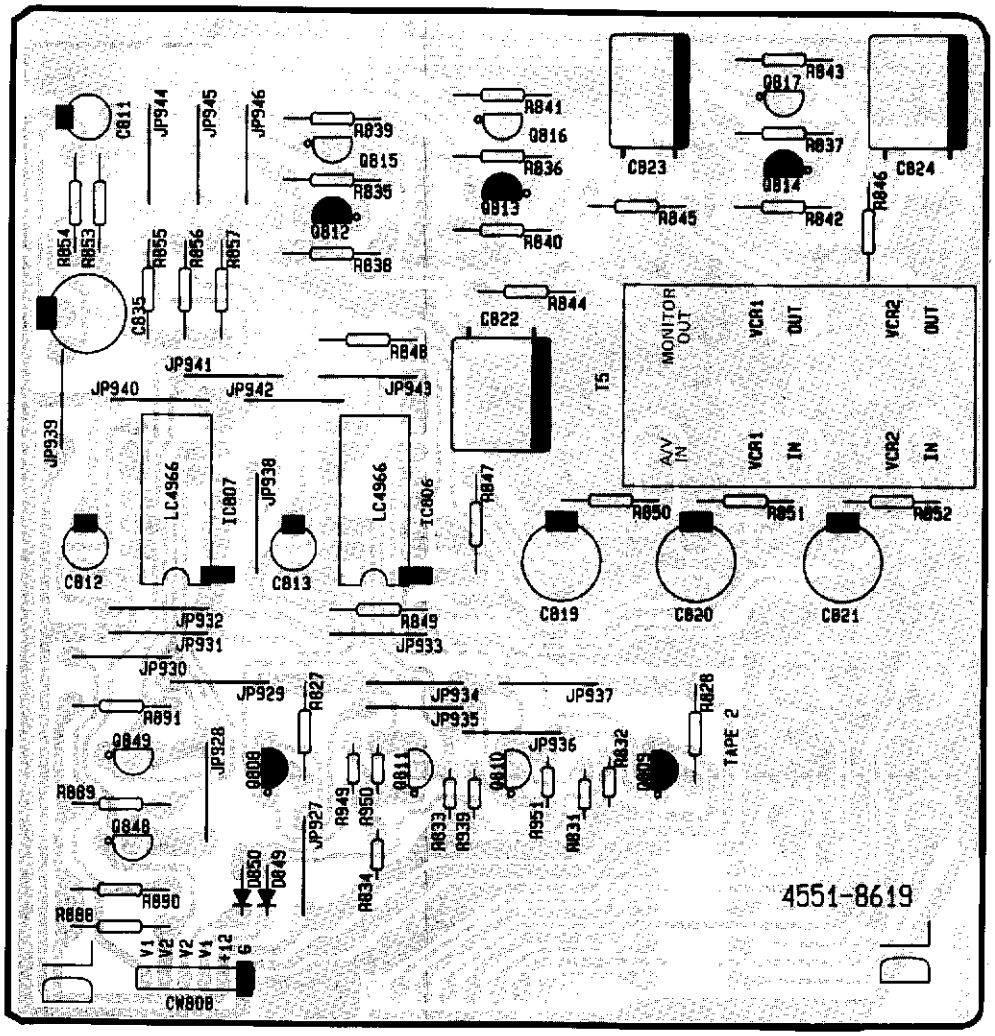
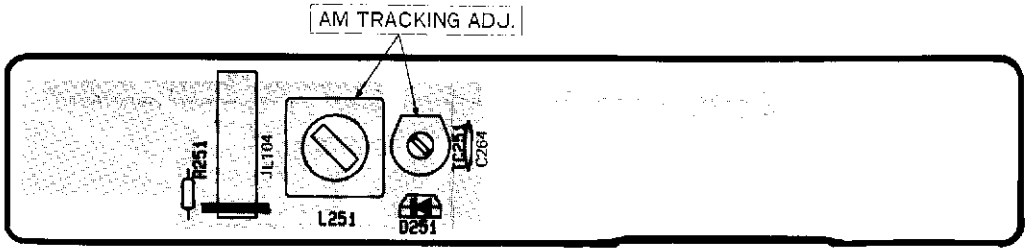
P.C. BOARDS (5)

PCB-10 AV P.C. Board



PCB-25 AM adjustment P.C. Board



ELECTRICAL PARTS LIST

PCB-1 MAIN P.C. BOARD

CAPACITORS

Ser. No.	Ref. No.	Part No.	Description
662	C2	5345-106F041	CAP, MINI ELE 10μ/50V
689	⚠C3	5362-103048	CAP, CER .01μ
689	⚠C4	5362-103048	CAP, CER .01μ
687	⚠C5	5341-002GM109	CAP, ELE 1000μ/63V
687	⚠C6	5341-002GM109	CAP, ELE 1000μ/63V
660	C7	5345-105F041	CAP, MINI ELE 1μ/50V
661	C8	5345-107B041	CAP, MINI ELE 100μ/10V
663	C15	5354-683593	CAP, MYL .068μ
663	C16	5354-683593	CAP, MYL .068μ
664	C17	5354-473J1HM	CAP, MYL .047μ
665	C21	5354-104593	CAP, MYL .1μ
665	C22	5354-104593	CAP, MYL .1μ
665	C23	5354-104593	CAP, MYL .1μ
665	C24	5354-104593	CAP, MYL .1μ
057B	C35	5352-1041957	CAP, MTL .1μ G GB BB
061B	C36	5361-223ZF	CAP, CER .022μ G GB BB
581	C401	5345-476B0951	CAP, MINI ELE 47μ/10V
581	C402	5345-476B0951	CAP, MINI ELE 47μ/10V
583	C403	5345-476C0951	CAP, MINI ELE 47μ/16V
583	C404	5345-476C0951	CAP, MINI ELE 47μ/16V
582	C405	5345-227A0951	CAP, MINI ELE 220μ/6.3V
582	C406	5345-227A0951	CAP, MINI ELE 220μ/6.3V
592	C407	5353-010933	CAP, MCA 1p UA BK
034B	C407	5353-020934	CAP, MCA 2p G GB BB
592	C408	5353-010933	CAP, MCA 1p UA BK
034B	C408	5353-020934	CAP, MCA 2p G GB BB
590	C409	5359-1015851	CAP, PPP 100p
590	C410	5359-1015851	CAP, PPP 100p
580	C411	5345-106C0951	CAP, MINI ELE 10μ/16V
580	C412	5345-106C0951	CAP, MINI ELE 10μ/16V
595	C413	5354-683J1HM	CAP, MYL .068μ
595	C414	5354-683J1HM	CAP, MYL .068μ
595	C415	5354-683J1HM	CAP, MYL .068μ
595	C416	5354-683J1HM	CAP, MYL .068μ
580	C417	5345-106C0951	CAP, MINI ELE 10μ/16V
580	C418	5345-106C0951	CAP, MINI ELE 10μ/16V
584	C421	5345-337G045	CAP, MINI ELE 330μ/63V
584	C422	5345-337G045	CAP, MINI ELE 330μ/63V
584	C423	5345-337G045	CAP, MINI ELE 330μ/63V
584	C424	5345-337G045	CAP, MINI ELE 330μ/63V
034B	C425	5353-020934	CAP, MCA 2p G GB BB
034B	C426	5353-020934	CAP, MCA 2p G GB BB
589	C475	5359-3315851	CAP, PPP 330p
589	C476	5359-3315851	CAP, PPP 330p

RESISTORS

Ser. No.	Ref. No.	Part No.	Description
668	R6	5135-103522	RES, CBN 1/2P 10K
670	R9	5135-472522	RES, CBN 1/2P 4.7K
670	R10	5135-472522	RES, CBN 1/2P 4.7K
667	R11	5135-822522	RES, CBN 1/2P 8.2K
669	R12	5135-104522	RES, CBN 1/2P 100K
675	R13	5135-683522	RES, CBN 1/2P 68K
676	R14	5135-333522	RES, CBN 1/2P 33K
672	R15	5135-223522	RES, CBN 1/2P 22K
672	R16	5135-223522	RES, CBN 1/2P 22K
674	R17	5135-562522	RES, CBN 1/2P 5.6K
674	R18	5135-562522	RES, CBN 1/2P 5.6K
673	R19	5135-122522	RES, CBN 1/2P 1.2K
673	R20	5135-122522	RES, CBN 1/2P 1.2K
674	R21	5135-562522	RES, CBN 1/2P 5.6K
674	R22	5135-562522	RES, CBN 1/2P 5.6K
670	R23	5135-472522	RES, CBN 1/2P 4.7K
670	R24	5135-472522	RES, CBN 1/2P 4.7K
671	R25	5135-473522	RES, CBN 1/2P 47K
672	R26	5135-223522	RES, CBN 1/2P 22K
671	R28	5135-473522	RES, CBN 1/2P 47K
668	R30	5135-103522	RES, CBN 1/2P 10K
667	R31	5135-822522	RES, CBN 1/2P 8.2K
667	R32	5135-822522	RES, CBN 1/2P 8.2K
603	R401	5135-102522	RES, CBN 1/2P 1K
603	R402	5135-102522	RES, CBN 1/2P 1K
604	R403	5135-683522	RES, CBN 1/2P 68K
604	R404	5135-683522	RES, CBN 1/2P 68K
631	R405	5174-122381	RES, MTL 1/4P 1.2K
631	R406	5174-122381	RES, MTL 1/4P 1.2K
631	R407	5174-122381	RES, MTL 1/4P 1.2K
631	R408	5174-122381	RES, MTL 1/4P 1.2K
606	R409	5135-822522	RES, CBN 1/2P 8.2K
606	R410	5135-822522	RES, CBN 1/2P 8.2K
607	R411	5135-680522	RES, CBN 1/2P 68
607	R412	5135-680522	RES, CBN 1/2P 68
607	R413	5135-680522	RES, CBN 1/2P 68
607	R414	5135-680522	RES, CBN 1/2P 68
623	R415	5135-222522	RES, CBN 1/2P 2.2K
623	R416	5135-222522	RES, CBN 1/2P 2.2K
609	R417	5135-561522	RES, CBN 1/2P 560
609	R418	5135-561522	RES, CBN 1/2P 560
604	R419	5135-683522	RES, CBN 1/2P 68K
604	R420	5135-683522	RES, CBN 1/2P 68K
638	⚠R421	5102-3315116	RES, FUSE 330
638	⚠R422	5102-3315116	RES, FUSE 330
638	⚠R423	5102-3315116	RES, FUSE 330
638	⚠R424	5102-3315116	RES, FUSE 330
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610	R427	5135-473522	RES, CBN 1/2P 47K
610	R428	5135-473522	RES, CBN 1/2P 47K
611	R429	5135-224522	RES, CBN 1/2P 220K
611	R430	5135-224522	RES, CBN 1/2P 220K
632	R431	5174-910381	RES, MTL 1/4P 91
632	R432	5174-910381	RES, MTL 1/4P 91
612	R433	5135-272522	RES, CBN 1/2P 2.7K
612	R434	5135-272522	RES, CBN 1/2P 2.7K
613	R435	5135-223522	RES, CBN 1/2P 22K
613	R436	5135-223522	RES, CBN 1/2P 22K
613	R437	5135-223522	RES, CBN 1/2P 22K
613	R438	5135-223522	RES, CBN 1/2P 22K
624	R439	5135-153522	RES, CBN 1/2P 15K
624	R440	5135-153522	RES, CBN 1/2P 15K
614	R441	5135-123522	RES, CBN 1/2P 12K
614	R442	5135-123522	RES, CBN 1/2P 12K
633	R443	5174-222381	RES, MTL 1/4P 2.2K
633	R444	5174-222381	RES, MTL 1/4P 2.2K
633	R445	5174-222381	RES, MTL 1/4P 2.2K
633	R446	5174-222381	RES, MTL 1/4P 2.2K
636	⚠R447	5102-1015116	RES, FUSE 100
636	⚠R448	5102-1015116	RES, FUSE 100
636	⚠R449	5102-1015116	RES, FUSE 100
636	⚠R450	5102-1015116	RES, FUSE 100
636	⚠R451	5102-1015116	RES, FUSE 100
636	⚠R452	5102-1015116	RES, FUSE 100
636	⚠R453	5102-1015116	RES, FUSE 100
636	⚠R454	5102-1015116	RES, FUSE 100
615	R455	5135-821522	RES, CBN 1/2P 820
615	R456	5135-821522	RES, CBN 1/2P 820
615	R457	5135-821522	RES, CBN 1/2P 820
615	R458	5135-821522	RES, CBN 1/2P 820
625	R459	5135-183522	RES, CBN 1/2P 18K
625	R460	5135-183522	RES, CBN 1/2P 18K
625	R461	5135-183522	RES, CBN 1/2P 18K
625	R462	5135-183522	RES, CBN 1/2P 18K
617	R463	5135-100522	RES, CBN 1/2P 10
617	R464	5135-100522	RES, CBN 1/2P 10
617	R465	5135-100522	RES, CBN 1/2P 10
617	R466	5135-100522	RES, CBN 1/2P 10
637	⚠R467	5102-1005116	RES, FUSE 10
637	⚠R468	5102-1005116	RES, FUSE 10
637	⚠R469	5102-1005116	RES, FUSE 10
637	⚠R470	5102-1005116	RES, FUSE 10
639	R471	5273-R27672	RES, CEM 3P .27
639	R472	5273-R27672	RES, CEM 3P .27
605	R475	5135-122522	RES, CBN 1/2P 1.2K
605	R476	5135-122522	RES, CBN 1/2P 1.2K
616	R483	5135-820522	RES, CBN 1/2P 82
616	R484	5135-820522	RES, CBN 1/2P 82
627	R491	5135-4R7522	RES, CBN 1/2P 4.7
627	R492	5135-4R7522	RES, CBN 1/2P 4.7

Ser. No.	Ref. No.	Part No.	Description
627	R493	5135-4R7522	RES, CBN 1/2P 4.7
627	R494	5135-4R7522	RES, CBN 1/2P 4.7
626	R495	5135-100522	RES, CBN 1/2P 10
626	R496	5135-100522	RES, CBN 1/2P 10
607	R499	5135-680522	RES, CBN 1/2P 68
607	R500	5135-680522	RES, CBN 1/2P 68
		TRANSISTORS	
652	Q1	5611-1115 (F) or (E)	XISTOR, PNP R
651	Q2	5613-2603 (F) or (E)	XISTOR, NPN R
653	Q3	5611-970 (BL)	XISTOR, PNP R
653	Q4	5611-970 (BL)	XISTOR, PNP R
653	Q5	5611-970 (BL)	XISTOR, PNP R
653	Q6	5611-970 (BL)	XISTOR, PNP R
654	Q7	5613-2240 (BL)	XISTOR, NPN R
561	Q401	5613-1775 (F)	XISTOR, NPN R
561	Q402	5613-1775 (F)	XISTOR, NPN R
561	Q403	5613-1775 (F)	XISTOR, NPN R
561	Q404	5613-1775 (F)	XISTOR, NPN R
562	Q405	5613-2320L (F)	XISTOR, NPN R
562	Q406	5613-2320L (F)	XISTOR, NPN R
562	Q407	5613-2320L (F)	XISTOR, NPN R
562	Q408	5613-2320L (F)	XISTOR, NPN R
563	Q409	5611-970 (BL)	XISTOR, PNP R
563	Q410	5611-970 (BL)	XISTOR, PNP R
574	Q411	5613-2240 (BL)	XISTOR, NPN R
574	Q412	5613-2240 (BL)	XISTOR, NPN R
573	Q413	5613-2240 (BL)	XISTOR, NPN R
573	Q414	5613-2240 (BL)	XISTOR, NPN R
563	Q415	5611-970 (BL)	XISTOR, PNP R
563	Q416	5611-970 (BL)	XISTOR, PNP R
564	Q417	5612-646A (C)	XISTOR, PNP A
564	Q418	5612-646A (C)	XISTOR, PNP A
565	Q419	5614-666A (C)	XISTOR, NPN A
565	Q420	5614-666A (C)	XISTOR, NPN A
564	Q421	5612-646A (C)	XISTOR, PNP A
564	Q422	5612-646A (C)	XISTOR, PNP A
565	Q423	5614-666A (C)	XISTOR, NPN A
565	Q424	5614-666A (C)	XISTOR, NPN A
566	Q425	5613-945 (K) or (P)	XISTOR, NPN R
566	Q426	5613-945 (K) or (P)	XISTOR, NPN R
567	Q427	5614-669A (C)	XISTOR, NPN A
567	Q428	5614-669A (C)	XISTOR, NPN A
587	Q429	5612-649A (C)	XISTOR, PNP A
587	Q430	5612-649A (C)	XISTOR, PNP A
569	⚠Q431	5613-3182 (O)	XISTOR, NPN R
569	⚠Q432	5613-3182 (O)	XISTOR, NPN R
571	⚠Q433	5611-1265 (O)	XISTOR, PNP R
571	⚠Q434	5611-1265 (O)	XISTOR, PNP R
		DIODES	
681	⚠D1	5632-ERC102FL	DIODE, RECT
681	⚠D2	5632-ERC102FL	DIODE, RECT
681	⚠D3	5632-ERC102FL	DIODE, RECT
681	⚠D4	5632-ERC102FL	DIODE, RECT
656	D5	5636-1S2471	DIODE, SWITCH
656	D6	5636-1S2471	DIODE, SWITCH
657	D11	5635-HZ6B1L	DIODE, ZENER
579	D401	5641-MV12YM	VARISTOR
579	D402	5641-MV12YM	VARISTOR
577	⚠D403	5632-S5566B	DIODE, RECT
577	⚠D404	5632-S5566B	DIODE, RECT
577	⚠D405	5632-S5566B	DIODE, RECT
577	⚠D406	5632-S5566B	DIODE, RECT
575	D407	5631-1S2473	DIODE, DET
575	D408	5631-1S2473	DIODE, DET
576	D409	5635-HZ12B2L	DIODE, ZENER
576	D410	5635-HZ12B2L	DIODE, ZENER
		COILS	
644	L405	5991-7165	SPRING COIL
644	L406	5991-7165	SPRING COIL
		CONTROLS	
641	VR401	5101-50171920	RES, SEMI FIX 500
641	VR402	5101-50171920	RES, SEMI FIX 500

Ser. No.	Ref. No.	Part No.	Description
		MISCELLANEOUS	
693	CN401	4443-030185	CONNECTOR
693	CN402	4443-030185	CONNECTOR
694	CN403	4443-070185	CONNECTOR
697	CW401	4163-0110024	CONNECTOR W/W
698	CW402	4163-0113024	CONNECTOR W/W
699	CW403	4163-0111024	CONNECTOR W/W
700	CW404	4163-0125022	CONNECTOR W/W
701	CW405	4163-0140027	CONNECTOR W/W
702	CW406	4163-0135020	CONNECTOR W/W
703	CW407	4163-0140025	CONNECTOR W/W
704	CW408	4163-0120020	CONNECTOR W/W
695	CW409	4163-0125022	CONNECTOR W/W
696	CW410	4163-0120023	CONNECTOR W/W
706	JL401	4242-R0103201	JUMPER LEAD
705	JL402	4242-043405	JUMPER LEAD
691	TM401	4214-11013	TERMINAL
691	TM402	4214-11013	TERMINAL

PCB-2 TONE CONTROL P.C. BOARD

		CAPACITORS	
585	C505	5345-225F0951	CAP, MINI ELE 2.2 μ/50V
585	C506	5345-225F0951	CAP, MINI ELE 2.2 μ/50V
596	C507	5354-273J1HM	CAP, MYL .027 μ
596	C508	5354-273J1HM	CAP, MYL .027 μ
599	C509	5354-154593	CAP, MYL .15 μ
599	C510	5354-154593	CAP, MYL .15 μ
586	C511	5345-106C0951	CAP, MINI ELE 10 μ/16V
586	C512	5345-106C0951	CAP, MINI ELE 10 μ/16V
597	C513	5354-682J1HM	CAP, MYL 6800p
597	C514	5354-682J1HM	CAP, MYL 6800p
598	C515	5354-393J1HM	CAP, MYL .039 μ
598	C516	5354-393J1HM	CAP, MYL .039 μ
		RESISTORS	
620	R507	5135-153522	RES, CBN 1/2P 15K
620	R508	5135-153522	RES, CBN 1/2P 15K
621	R509	5135-272522	RES, CBN 1/2P 2.7K
621	R510	5135-272522	RES, CBN 1/2P 2.7K
622	R513	5135-681522	RES, CBN 1/2P 680
622	R514	5135-681522	RES, CBN 1/2P 680
		CONTROLS	
720	VR501	5113-50346122	RES, V CBN 16 50K
714	VR503	5113-10447122	RES, V CBN 16 100K
717	VR504	5113-50348122	RES, V CBN 16 50K
		MISCELLANEOUS	
709	CN501	4443-030185	CONNECTOR
709	CN502	4443-030185	CONNECTOR
710	JL501	4242-R0107101	JUMPER LEAD

PCB-3 HEADPHONES JACK P.C. BOARD

		RESISTORS	
634	R497	5171-471571	RES, MTL 1P 470
634	R498	5171-471571	RES, MTL 1P 470
		MISCELLANEOUS	
736	J1	4451-00159	JACK, 1P
707	JL108	4242-R0103121	JUMPER LEAD

PCB-4 SPEAKER SWITCHES P.C. BOARD

		MISCELLANEOUS	
728	SW6	4431-S0303204	SWITCH, PUSH

PCB-5 EQUALIZER P.C. BOARD

		CAPACITORS	
845	C539	5359-1015851	CAP, PPP 100p
845	C540	5359-1015851	CAP, PPP 100p
511	C601	5345-106C0951	CAP, MINI ELE 10 μ/16V

Ser. No.	Ref. No.	Part No.	Description
511	C602	5345-106C0951	CAP, MINI ELE 10μ/16V
513	C603	5359-1215851	CAP, PPP 120p
513	C604	5359-1215851	CAP, PPP 120p
510	C605	5345-227A0951	CAP, MINI ELE 220μ/6.3V
510	C606	5345-227A0951	CAP, MINI ELE 220μ/6.3V
514	C607	5359-5625851	CAP, PPP 5600p
514	C608	5359-5625851	CAP, PPP 5600p
515	C609	5359-2025851	CAP, PPP 2000p
515	C610	5359-2025851	CAP, PPP 2000p
511	C611	5345-106C0951	CAP, MINI ELE 10μ/16V
511	C612	5345-106C0951	CAP, MINI ELE 10μ/16V
546	C613	5345-227D041	CAP, MINI ELE 220μ/25V
546	C614	5345-227D041	CAP, MINI ELE 220μ/25V
546	C615	5345-227D041	CAP, MINI ELE 220μ/25V
546	C616	5345-227D041	CAP, MINI ELE 220μ/25V
516	C617	5359-1525851	CAP, PPP 1500p
516	C618	5359-1525851	CAP, PPP 1500p
517	C619	5353-040933	CAP, MCA 4p
517	C620	5353-040933	CAP, MCA 4p
509	C621	5345-227D041	CAP, MINI ELE 220μ/25V
509	C622	5345-227D041	CAP, MINI ELE 220μ/25V
056B	C631	5353-820534	CAP, MCA 82P G GB BB
056B	C632	5353-820534	CAP, MCA 82P G GB BB
052B	C635	5359-1015851	CAP, PPP 100P G GB BB
052B	C636	5359-1015851	CAP, PPP 100P G GB BB
834	C801	5345-106D0951	CAP, MINI ELE 10μ/25V
834	C802	5345-106D0951	CAP, MINI ELE 10μ/25V
835	C803	5345-104F0951	CAP, MINI ELE .1μ/50V
840	C856	5354-104593	CAP, MYL .1μ
836	C865	5345-107D041	CAP, MINI ELE 100μ/25V
836	C866	5345-107D041	CAP, MINI ELE 100μ/25V
		RESISTORS	
841	R563	5135-821522	RES, CBN 1/2P 820
841	R564	5135-821522	RES, CBN 1/2P 820
841	R565	5135-821522	RES, CBN 1/2P 820
841	R566	5135-821522	RES, CBN 1/2P 820
843	R585	5135-272522	RES, CBN 1/2P 2.7K
843	R586	5135-272522	RES, CBN 1/2P 2.7K
841	R587	5135-821522	RES, CBN 1/2P 820
841	R588	5135-821522	RES, CBN 1/2P 820
519	R601	5135-823522	RES, CBN 1/2P 82K
519	R602	5135-823522	RES, CBN 1/2P 82K
520	R603	5135-124522	RES, CBN 1/2P 120K
520	R604	5135-124522	RES, CBN 1/2P 120K
521	R605	5135-221522	RES, CBN 1/2P 220
521	R606	5135-221522	RES, CBN 1/2P 220
522	R607	5135-122522	RES, CBN 1/2P 1.2K
522	R608	5135-122522	RES, CBN 1/2P 1.2K
523	R609	5135-220522	RES, CBN 1/2P 22
523	R610	5135-220522	RES, CBN 1/2P 22
522	R611	5135-122522	RES, CBN 1/2P 1.2K
522	R612	5135-122522	RES, CBN 1/2P 1.2K
524	R613	5135-223522	RES, CBN 1/2P 22K
524	R614	5135-223522	RES, CBN 1/2P 22K
525	R615	5135-820522	RES, CBN 1/2P 82
525	R616	5135-820522	RES, CBN 1/2P 82
526	R617	5135-121522	RES, CBN 1/2P 120
526	R618	5135-121522	RES, CBN 1/2P 120
527	R621	5135-751522	RES, CBN 1/2P 750
527	R622	5135-751522	RES, CBN 1/2P 750
528	R623	5135-393522	RES, CBN 1/2P 39K
528	R624	5135-393522	RES, CBN 1/2P 39K
529	R625	5135-564522	RES, CBN 1/2P 560K
529	R626	5135-564522	RES, CBN 1/2P 560K
530	R627	5135-334522	RES, CBN 1/2P 330K
530	R628	5135-334522	RES, CBN 1/2P 330K
531	R629	5135-102522	RES, CBN 1/2P 1K
531	R630	5135-102522	RES, CBN 1/2P 1K
533	R631	5135-104522	RES, CBN 1/2P 100K
533	R632	5135-104522	RES, CBN 1/2P 100K
531	R633	5135-102522	RES, CBN 1/2P 1K
531	R634	5135-102522	RES, CBN 1/2P 1K
532	R635	5135-222522	RES, CBN 1/2P 2.2K
532	R636	5135-222522	RES, CBN 1/2P 2.2K

Ser. No.	Ref. No.	Part No.	Description
542	⚠R637	5102-4705116	RES, FUSE 47
542	⚠R638	5102-4705116	RES, FUSE 47
544	R639	5135-103522	RES, CBN 1/2P 10K
544	R640	5135-103522	RES, CBN 1/2P 10K
543	R641	5135-331522	RES, CBN 1/2P 330
543	R642	5135-331522	RES, CBN 1/2P 330
518	R643	5135-821522	RES, CBN 1/2P 820
518	R644	5135-821522	RES, CBN 1/2P 820
518	R645	5135-821522	RES, CBN 1/2P 820
518	R646	5135-821522	RES, CBN 1/2P 820
055B	R671	5135-102522	RES, CBN 1/2P 1K G GB BB
055B	R672	5135-102522	RES, CBN 1/2P 1K G GB BB
055B	R673	5135-102522	RES, CBN 1/2P 1K G GB BB
055B	R674	5135-102522	RES, CBN 1/2P 1K G GB BB
532	R681	5135-222522	RES, CBN 1/2P 2.2K
532	R682	5135-222522	RES, CBN 1/2P 2.2K
837	R801	5135-224522	RES, CBN 1/2P 220K
837	R802	5135-224522	RES, CBN 1/2P 220K
838	R803	5135-104522	RES, CBN 1/2P 100K
837	R804	5135-224522	RES, CBN 1/2P 220K
839	R810	5135-223522	RES, CBN 1/2P 22K
838	R811	5135-104522	RES, CBN 1/2P 100K
842	R954	5135-100522	RES, CBN 1/2P 10
841	R956	5135-821522	RES, CBN 1/2P 820
841	R957	5135-821522	RES, CBN 1/2P 820
		INTEGRATED CIRCUIT	
832	IC801	5654-LC7818	IC, DIGITAL
		TRANSISTORS	
501	Q601	5613-2320L (F)	XISTOR, NPN R
501	Q602	5613-2320L (F)	XISTOR, NPN R
504	Q603	5611-999L (F)	XISTOR, PNP R
504	Q604	5611-999L (F)	XISTOR, PNP R
504	Q605	5611-999L (F)	XISTOR, PNP R
504	Q606	5611-999L (F)	XISTOR, PNP R
501	Q607	5613-2320L (F)	XISTOR, NPN R
501	Q608	5613-2320L (F)	XISTOR, NPN R
501	Q609	5613-2320L (F)	XISTOR, NPN R
501	Q610	5613-2320L (F)	XISTOR, NPN R
501	Q611	5613-2320L (F)	XISTOR, NPN R
501	Q612	5613-2320L (F)	XISTOR, NPN R
538	Q613	5612-941 (P) or (S)	XISTOR, PNP A
537	Q614	5614-1266 (P) or (S)	XISTOR, NPN A
539	Q615	5613-2603 (E) or (F)	XISTOR, NPN R
540	Q616	5611-1115 (E) or (F)	XISTOR, PNP R
		DIODES	
541	D601	5635-HZ18-2L	DIODE, ZENER
541	D602	5635-HZ18-2L	DIODE, ZENER
833	D801	5631-1S2473	DIODE, DET
833	D802	5631-1S2473	DIODE, DET
833	D803	5631-1S2473	DIODE, DET
		MISCELLANEOUS	
737	T1	4489-01302006	PIN JACK, MLT
738	T2	4484-46	PIN JACK, 4P
844	CN601	4443-050185	CONNECTOR
847	CW601	4163-0150020	CONNECTOR W/W
848	CW602	4163-S0209121	CONNECTOR W/W
849	CW603	4163-0150020	CONNECTOR W/W
849	CW604	4163-0150020	CONNECTOR W/W
851	JL601	4242-R0403161	JUMPER LEAD
852	JL602	4242-R0403101	JUMPER LEAD

PCB-6 CONTROL I/O BOARD

		CAPACITORS	
876	C501	5353-680534	CAP, MCA 68p
876	C502	5353-680534	CAP, MCA 68p
883	C804	5345-106D0951	CAP, MINI ELE 10μ/25V
883	C805	5345-106D0951	CAP, MINI ELE 10μ/25V
881	C806	5345-106D041	CAP, MINI ELE 10μ/25V
881	C807	5345-106D041	CAP, MINI ELE 10μ/25V
881	C809	5345-106D041	CAP, MINI ELE 10μ/25V
881	C810	5345-106D041	CAP, MINI ELE 10μ/25V
882	C815	5345-104F0951	CAP, MINI ELE .1μ/50V

Ser. No.	Ref. No.	Part No.	Description
877	C816	5354-103M1HM	CAP, MYL .01 μ
879	C817	5354-392M1HM	CAP, MYL 3900p
879	C818	5354-392M1HM	CAP, MYL 3900p
878	C840	5354-102M1HM	CAP, MYL 1000p
878	C841	5354-102M1HM	CAP, MYL 1000p
878	C842	5354-102M1HM	CAP, MYL 1000p
878	C843	5354-102M1HM	CAP, MYL 1000p
879	C867	5354-392M1HM	CAP, MYL 3900p
879	C868	5354-392M1HM	CAP, MYL 3900p
880	C869	5345-106C0951	CAP, MINI ELE 10 μ/16V
880	C870	5345-106C0951	CAP, MINI ELE 10 μ/16V
865	C873	5345-226D041	CAP, MINI ELE 22 μ/25V
865	C874	5345-226D041	CAP, MINI ELE 22 μ/25V
053B	C875	5359-1015851	CAP, PPP 100P (G) (GB) (BB)
053B	C876	5359-1015851	CAP, PPP 100P (G) (GB) (BB)
		RESISTORS	
898	R579	5135-102522	RES, CBN 1/2P 1K
898	R580	5135-102522	RES, CBN 1/2P 1K
898	R581	5135-102522	RES, CBN 1/2P 1K
898	R582	5135-102522	RES, CBN 1/2P 1K
898	R583	5135-102522	RES, CBN 1/2P 1K
898	R584	5135-102522	RES, CBN 1/2P 1K
898	R591	5135-102522	RES, CBN 1/2P 1K
898	R592	5135-102522	RES, CBN 1/2P 1K
898	R593	5135-102522	RES, CBN 1/2P 1K
898	R594	5135-102522	RES, CBN 1/2P 1K
891	R805	5135-224522	RES, CBN 1/2P 220K
891	R806	5135-224522	RES, CBN 1/2P 220K
892	R807	5135-104522	RES, CBN 1/2P 100K
891	R808	5135-224522	RES, CBN 1/2P 220K
894	R813	5135-223522	RES, CBN 1/2P 22K
896	R814	5135-104522	RES, CBN 1/2P 100K
893	R815	5135-105522	RES, CBN 1/2P 1M
893	R816	5135-105522	RES, CBN 1/2P 1M
894	R817	5135-223522	RES, CBN 1/2P 22K
895	R818	5135-100522	RES, CBN 1/2P 10
889	R823	5232-105J16P	RES, CBN 1/6P 1M
889	R824	5232-105J16P	RES, CBN 1/6P 1M
889	R825	5232-105J16P	RES, CBN 1/6P 1M
889	R826	5232-105J16P	RES, CBN 1/6P 1M
890	R884	5232-104J16P	RES, CBN 1/6P 100K
890	R885	5232-104J16P	RES, CBN 1/6P 100K
890	R886	5232-104J16P	RES, CBN 1/6P 100K
890	R887	5232-104J16P	RES, CBN 1/6P 100K
885	R900	5135-223522	RES, CBN 1/2P 22K
886	R917	5135-472522	RES, CBN 1/2P 4.7K
886	R918	5135-472522	RES, CBN 1/2P 4.7K
886	R919	5135-472522	RES, CBN 1/2P 4.7K
886	R920	5135-472522	RES, CBN 1/2P 4.7K
887	R921	5135-221522	RES, CBN 1/2P 220
887	R922	5135-221522	RES, CBN 1/2P 220
887	R923	5135-221522	RES, CBN 1/2P 220
887	R924	5135-221522	RES, CBN 1/2P 220
887	R925	5135-221522	RES, CBN 1/2P 220
887	R926	5135-221522	RES, CBN 1/2P 220
887	R927	5135-221522	RES, CBN 1/2P 220
886	R930	5135-472522	RES, CBN 1/2P 4.7K
886	R931	5135-472522	RES, CBN 1/2P 4.7K
886	R932	5135-472522	RES, CBN 1/2P 4.7K
884	⚠R933	5102-1005116	RES, FUSE 10
888	R935	5135-104522	RES, CBN 1/2P 100K
888	R936	5135-104522	RES, CBN 1/2P 100K
893	R942	5135-105522	RES, CBN 1/2P 1M
893	R943	5135-105522	RES, CBN 1/2P 1M
896	R944	5135-104522	RES, CBN 1/2P 100K
894	R945	5135-223522	RES, CBN 1/2P 22K
891	R952	5135-224522	RES, CBN 1/2P 220K
891	R953	5135-224522	RES, CBN 1/2P 220K
899	R955	5232-100J16P	RES, CBN 1/6P 10
898	R958	5135-102522	RES, CBN 1/2P 1K
898	R959	5135-102522	RES, CBN 1/2P 1K
894	R961	5135-223522	RES, CBN 1/2P 22K
894	R962	5135-223522	RES, CBN 1/2P 22K
898	R963	5135-102522	RES, CBN 1/2P 1K
898	R964	5135-102522	RES, CBN 1/2P 1K
898	R965	5135-102522	RES, CBN 1/2P 1K
898	R966	5135-102522	RES, CBN 1/2P 1K
		INTEGRATED CIRCUITS	
861	IC802	5654-LC7818	IC, DIGITAL
862	IC803	5654-TC9174P	IC, DIGITAL
863	IC804	5654-TC9173P	IC, DIGITAL
856	IC805	5653-LB1641	IC, LINEAR
		TRANSISTORS	
868	Q801	5616-2SK364 (V) or (BL)	FET, N-CR
868	Q802	5616-2SK364 (V) or (BL)	FET, N-CH
870	Q803	5611-1115 (E) or (F)	XISTOR, PNP R
867	Q832	5616-2SK364V	FET, N-CH
869	Q833	5616-2SK246BL	FET, N-CH
867	Q834	5616-2SK364V	FET, N-CH
869	Q835	5616-2SK246BL	FET, N-CH
867	Q836	5616-2SK364V	FET, N-CH
869	Q837	5616-2SK246BL	FET, N-CH
867	Q838	5616-2SK364V	FET, N-CH
869	Q839	5616-2SK246BL	FET, N-CH
871	Q842	5613-RN1203	XISTOR, NPN R
871	Q843	5613-RN1203	XISTOR, NPN R
873	Q846	5611-RN2203	XISTOR, PNP R
873	Q847	5611-RN2203	XISTOR, PNP R
868	Q855	5616-2SK364 (V) or (BL)	FET, N-CH
868	Q856	5616-2SK364 (V) or (BL)	FET, N-CH
870	Q857	5611-1115 (E) OR (F)	XISTOR, PNP R
		DIODES	
872	D804	5631-1SS133	DIODE, DET
872	D805	5631-1SS133	DIODE, DET
872	D806	5631-1SS133	DIODE, DET
874	D821	5635-RD5R1EB2	DIODE, ZENER
872	D830	5631-1SS133	DIODE, DET
872	D831	5631-1SS133	DIODE, DET
872	D832	5631-1SS133	DIODE, DET
872	D833	5631-1SS133	DIODE, DET
872	D834	5631-1SS133	DIODE, DET
872	D835	5631-1SS133	DIODE, DET
872	D836	5631-1SS133	DIODE, DET
872	D837	5631-1SS133	DIODE, DET
875	D846	5631-1S2473	DIODE, DET
872	D848	5631-1SS133	DIODE, DET
		MISCELLANEOUS	
739	T3	4484-46	PIN JACK, 4P
739	T4	4484-46	PIN JACK, 4P
749	CN801	4443-030185	CONNECTOR
749	CN802	4443-030185	CONNECTOR
750	CN803	4443-0601140	CONNECTOR
751	CN804	4443-0901140	CONNECTOR
752	CN805	4443-0201140	CONNECTOR
753	CW801	4163-S0211221	CONNECTOR W/W
754	CW802	4163-S0208121	CONNECTOR W/W
755	CW803	4163-S0204161	CONNECTOR W/W
756	CW804	4163-S0203351	CONNECTOR W/W
757	CW811	4163-0145020	CONNECTOR W/W
757	CW812	4163-0145020	CONNECTOR W/W
759	JL801	4242-R0104700	JUMPER LEAD
760	JL802	4242-R0406301	JUMPER LEAD

PCB-7 LED P.C. BOARD

		CAPACITORS	
958	C533	5354-394593	CAP, MYL .39 μ
958	C534	5354-394593	CAP, MYL .39 μ
		RESISTORS	
955	R858	5135-222522	RES, CBN 1/2P 2.2K
955	R859	5135-222522	RES, CBN 1/2P 2.2K
955	R860	5135-222522	RES, CBN 1/2P 2.2K
955	R861	5135-222522	RES, CBN 1/2P 2.2K
956	R862	5135-473522	RES, CBN 1/2P 47K
956	R863	5135-473522	RES, CBN 1/2P 47K
955	R864	5135-222522	RES, CBN 1/2P 2.2K

Ser. No.	Ref. No.	Part No.	Description
955	R865	5135-222522	RES, CBN 1/2P 2.2K
955	R866	5135-222522	RES, CBN 1/2P 2.2K
957	R901	5135-223522	RES, CBN 1/2P 22K
957	R902	5135-223522	RES, CBN 1/2P 22K
957	R903	5135-223522	RES, CBN 1/2P 22K
957	R904	5135-223522	RES, CBN 1/2P 22K
957	R907	5135-223522	RES, CBN 1/2P 22K
957	R908	5135-223522	RES, CBN 1/2P 22K
957	R909	5135-223522	RES, CBN 1/2P 22K
956	R938	5135-473522	RES, CBN 1/2P 47K
		TRANSISTORS	
952	Q850	5613-RN1203	XISTOR, NPN R
953	Q851	5611-RN2203	XISTOR, PNP R
		DIODES	
951	D808	5637-LT5D41B	LED
951	D809	5637-LT5D41B	LED
951	D810	5637-LT5D41B	LED
951	D811	5637-LT5D41B	LED
951	D814	5637-LT5D41B	LED
951	D815	5637-LT5D41B	LED
951	D816	5637-LT5D41B	LED
		MISCELLANEOUS	
765	CW805	4163-S0105500	CONNECTOR W/W
766	CW806	4163-S0109500	CONNECTOR W/W
767	CW807	4163-S0105141	CONNECTOR W/W
768	JL803	4242-R0403101	JUMPER LEAD
769	JL804	4242-R0403301	JUMPER LEAD
770	JL805	4242-R0405301	JUMPER LEAD
735	SW1	4431-S0105102	SWITCH, PUSH
731	SW2	4431-A027261	SWITCH, PUSH
733	SW3	4431-S0104102	SWITCH, PUSH

PCB-8 FUNCTION P.C. BOARD

		RESISTORS	
776	R946	5135-222522	RES, CBN 1/2P 2.2K
776	R947	5135-222522	RES, CBN 1/2P 2.2K
		MISCELLANEOUS	
771	CN806	4443-0401140	CONNECTOR
772	CN807	4443-0501140	CONNECTOR
773	CN808	4443-0801140	CONNECTOR
774	CN809	4443-0901140	CONNECTOR
775	CN810	4443-1101140	CONNECTOR
723	SW8	4411-00210105	SWITCH, ROTRY
726	SW9	4411-00209103	SWITCH, ROTRY
729	SW10	4411-00211104	SWITCH, ROTRY

PCB-9 RELAY P.C. BOARD

		CAPACITORS	
946	⚠C1	5352-S010M103	CAP, MTL .01μ UA BK
946B	⚠C1	5352-1030958	CAP, MTL .01μ G GB BB
930	C828	5345-477C041	CAP, MINI ELE 470μ/16V
931	C829	5345-227A041	CAP, MINI ELE 220μ/6.3V
931	C830	5345-227A041	CAP, MINI ELE 220μ/6.3V
932	C846	5345-336E041	CAP, MINI ELE 33μ/35V
		RESISTORS	
054B	R51	5135-335522	RES, CBN 1/2P 3.3M G GB BB
935	⚠R867	5102-4R74715	RES, FUSE 4.7
938	R868	5135-822522	RES, CBN 1/2P 8.2K
941	R869	5135-472522	RES, CBN 1/2P 4.7K
940	R870	5135-560522	RES, CBN 1/2P 56
939	R871	5135-332522	RES, CBN 1/2P 3.3K
936	⚠R892	5102-1005116	RES, FUSE 10
936	⚠R893	5102-1005116	RES, FUSE 10
936	⚠R896	5102-1005116	RES, FUSE 10
941	R897	5135-472522	RES, CBN 1/2P 4.7K
		TRANSISTORS	
922	Q818	5613-3246 (H)	XISTOR, NPN R
921	Q819	5614-667A (C)	XISTOR, NPN A

Ser. No.	Ref. No.	Part No.	Description
		DIODES	
924	D807	5631-1S2473	DIODE, DET
925	D817	5632-S5566B	DIODE, RECT
926	D818	5635-HZ6B1L	DIODE, ZENER
925	D845	5632-S5566B	DIODE, RECT
		MISCELLANEOUS	
782	CN811	4443-0501140	CONNECTOR
783	CN812	4443-0601140	CONNECTOR
948	⚠HF1	4472-0131	HOLDER, FUSE
948	⚠HF2	4472-0131	HOLDER, FUSE
945	⚠RD1	4331-10120137	RELAY, DC UA BK
945B	⚠RD1	4331-10120237	RELAY, DC G GB BB
732	SW7	4431-S0701102	SWITCH, PUSH
944	⚠TF2	5584-702550	XFORMER, POWER UA BK
944B	⚠TF2	5584-701550	XFORMER, POWER G GB BB
779	TM801	4214-122	TERMINAL
779	TM802	4214-122	TERMINAL
779	TM803	4214-122	TERMINAL
779	TM804	4214-122	TERMINAL
779	TM805	4214-122	TERMINAL
780	TM806	4214-11023	TERMINAL

PCB-10 AV P.C. BOARD

		CAPACITORS	
906	C811	5345-106D041	CAP, MINI ELE 10μ/25V
906	C812	5345-106D041	CAP, MINI ELE 10μ/25V
906	C813	5345-106D041	CAP, MINI ELE 10μ/25V
907	C819	5345-107C041	CAP, MINI ELE 100μ/16V
907	C820	5345-107C041	CAP, MINI ELE 100μ/16V
907	C821	5345-107C041	CAP, MINI ELE 100μ/16V
908	C822	5345-477C041	CAP, MINI ELE 470μ/16V
908	C823	5345-477C041	CAP, MINI ELE 470μ/16V
908	C824	5345-477C041	CAP, MINI ELE 470μ/16V
907	C835	5345-107C041	CAP, MINI ELE 100μ/16V
		RESISTORS	
911	R827	5135-473522	RES, CBN 1/2P 47K
911	R828	5135-473522	RES, CBN 1/2P 47K
909	R831	5232-473J16P	RES, CBN 1/6P 47K
909	R832	5232-473J16P	RES, CBN 1/6P 47K
909	R833	5232-473J16P	RES, CBN 1/6P 47K
909	R834	5232-473J16P	RES, CBN 1/6P 47K
912	R835	5135-271522	RES, CBN 1/2P 270
912	R836	5135-271522	RES, CBN 1/2P 270
912	R837	5135-271522	RES, CBN 1/2P 270
913	R838	5135-221522	RES, CBN 1/2P 220
913	R839	5135-221522	RES, CBN 1/2P 220
913	R840	5135-221522	RES, CBN 1/2P 220
913	R841	5135-221522	RES, CBN 1/2P 220
913	R842	5135-221522	RES, CBN 1/2P 220
913	R843	5135-221522	RES, CBN 1/2P 220
914	R844	5135-680522	RES, CBN 1/2P 68
914	R845	5135-680522	RES, CBN 1/2P 68
914	R846	5135-680522	RES, CBN 1/2P 68
913	R847	5135-221522	RES, CBN 1/2P 220 UA BK
058B	R847	5135-681522	RES, CBN 1/2P 680 G GB BB
913	R848	5135-221522	RES, CBN 1/2P 220 UA BK
058B	R848	5135-681522	RES, CBN 1/2P 680 G GB BB
913	R849	5135-221522	RES, CBN 1/2P 220 UA BK
058B	R849	5135-681522	RES, CBN 1/2P 680 G GB BB
915	R850	5135-750522	RES, CBN 1/2P 75
915	R851	5135-750522	RES, CBN 1/2P 75
915	R852	5135-750522	RES, CBN 1/2P 75
916	R853	5135-332522	RES, CBN 1/2P 3.3K
917	R854	5135-182522	RES, CBN 1/2P 1.8K
918	R855	5135-103522	RES, CBN 1/2P 10K
918	R856	5135-103522	RES, CBN 1/2P 10K
918	R857	5135-103522	RES, CBN 1/2P 10K
918	R888	5135-103522	RES, CBN 1/2P 10K
911	R889	5135-473522	RES, CBN 1/2P 47K
918	R890	5135-103522	RES, CBN 1/2P 10K
911	R891	5135-473522	RES, CBN 1/2P 47K
910	R939	5232-124J16P	RES, CBN 1/6P 120K

Ser. No.	Ref. No.	Part No.	Description
920	R949	5232-223J16P	RES, CBN 1/6P 22K
920	R950	5232-223J16P	RES, CBN 1/6P 22K
920	R951	5232-223J16P	RES, CBN 1/6P 22K
		INTEGRATED CIRCUITS	
900	IC806	5654-LC4966	IC, DIGITAL
900	IC807	5654-LC4966	IC, DIGITAL
		TRANSISTORS	
905	Q808	5611-RN2203	XISTOR, PNP R
905	Q809	5611-RN2203	XISTOR, PNP R
904	Q810	5613-2603 (E) or (F)	XISTOR, NPN R
904	Q811	5613-2603 (E) or (F)	XISTOR, NPN R
902	Q812	5611-1115 (E) or (F)	XISTOR, PNP R
902	Q813	5611-1115 (E) or (F)	XISTOR, PNP R
902	Q814	5611-1115 (E) or (F)	XISTOR, PNP R
904	Q815	5613-2603 (E) or (F)	XISTOR, NPN R
904	Q816	5613-2603 (E) or (F)	XISTOR, NPN R
904	Q817	5613-2603 (E) or (F)	XISTOR, NPN R
903	Q848	5613-RN1204	XISTOR, NPN R
903	Q849	5613-RN1204	XISTOR, NPN R
		DIODES	
901	D849	5631-1SS133	DIODE, DET
901	D850	5631-1SS133	DIODE, DET
		MISCELLANEOUS	
740	T5	4489-00901006	PIN JACK, MLT
786	CW808	4163-S0106800	CONNECTOR W/W

PCB-11 VOLUME P.C. BOARD

		CAPACITOR	
790	C862	5354-104593	CAP, MYL .1 μ
		MISCELLANEOUS	
789	JL806	4242-R0106800	JUMPER LEAD
711	VR502	6161-00202	VR BLOCK

PCB-12 LOUDNESS P.C. BOARD

		CAPACITORS	
551	C575	5359-1815851	CAP, PPP 180p
551	C576	5359-1815851	CAP, PPP 180p
552	C577	5354-823J1HM	CAP, MYL .082 μ
552	C578	5354-823J1HM	CAP, MYL .082 μ
		RESISTORS	
553	R571	5135-273522	RES, CBN 1/2P 27K
553	R572	5135-273522	RES, CBN 1/2P 27K
554	R573	5135-472522	RES, CBN 1/2P 4.7K
554	R574	5135-472522	RES, CBN 1/2P 4.7K
553	R575	5135-273522	RES, CBN 1/2P 27K
553	R576	5135-273522	RES, CBN 1/2P 27K
		MISCELLANEOUS	
741	SW4	4431-A027610	SWITCH, PUSH

PCB-13 OPERATING MODE P.C. BOARD

		RESISTORS	
961	R876	5135-681522	RES, CBN 1/2P 680
962	R894	5135-121522	RES, CBN 1/2P 120
963	R895	5135-122522	RES, CBN 1/2P 1.2K
		DIODES	
960	D842	5637-LT5H41B	LED
959	D843	5637-LT5D41B	LED
959	D844	5637-LT5D41B	LED
		MISCELLANEOUS	
792	CW809	4163-S0106900	CONNECTOR W/W

PCB-14 SPEAKER TERMINAL P.C. BOARD

		MISCELLANEOUS	
743	TM1	4214-156	TERMINAL

Ser. No.	Ref. No.	Part No.	Description

PCB-21 TUNER P.C. BOARD

		CAPACITORS	
381	C61	5361-473ZF	CAP, CER .047 μ
381	C62	5361-473ZF	CAP, CER .047 μ
377	C63	5345-228D045	CAP, MINI ELE 2200 μ/25V
379	C64	5345-107D041	CAP, MINI ELE 100 μ/25V
378	C65	5345-108C041	CAP, MINI ELE 1000 μ/16V
380	C66	5345-106F041	CAP, MINI ELE 10 μ/50V
106	C101	5345-106F041	CAP, MINI ELE 10 μ/50V
106	C102	5345-106F041	CAP, MINI ELE 10 μ/50V
106	C103	5345-106F041	CAP, MINI ELE 10 μ/50V
110	C104	5361-223Z921	CAP, CER .022 μ
110	C105	5361-223Z921	CAP, CER .022 μ
148	C201	5361-223Z921	CAP, CER .022 μ
148	C202	5361-223Z921	CAP, CER .022 μ
148	C203	5361-223Z921	CAP, CER .022 μ
149	C204	5361-103M920	CAP, CER .01 μ
148	C205	5361-223Z921	CAP, CER .022 μ
148	C206	5361-223Z921	CAP, CER .022 μ
148	C207	5361-223Z921	CAP, CER .022 μ
151	C208	5361-4R7K917	CAP, CER 4.7p
147	C209	5361-223ZF	CAP, CER .022 μ
143	C210	5345-107D041	CAP, MINI ELE 100 μ/25V
144	C211	5345-226D0951	CAP, MINI ELE 22 μ/25V
145	C212	5345-474F0951	CAP, MINI ELE .47 μ/50V
150	C213	5361-101K918	CAP, CER 100p
152	C214	5361-220J917	CAP, CER 22p
209	C251	5359-4315851	CAP, PPP 430p
211	C252	5361-220JSH	CAP, CER 22p
212	C253	5361-103M920	CAP, CER .01 μ
204	C254	5345-106F041	CAP, MINI ELE 10 μ/50V
205	C255	5345-475F041	CAP, MINI ELE 4.7 μ/50V
205	C256	5345-475F041	CAP, MINI ELE 4.7 μ/50V
206	C257	5345-105F041	CAP, MINI ELE 1 μ/50V
206	C258	5345-105F041	CAP, MINI ELE 1 μ/50V
213	C259	5361-472K919	CAP, CER 4700p
207	C261	5345-224F041	CAP, MINI ELE .22 μ/50V
204	C262	5345-106F041	CAP, MINI ELE 10 μ/50V
214	C263	5361-223Z921	CAP, CER .022 μ
256	C301	5345-107D041	CAP, MINI ELE 100 μ/25V
257	C302	5345-226D041	CAP, MINI ELE 22 μ/25V UA BK
266	C303	5359-S010J471	CAP, PPP 470p UA BK
266C	C303	5359-271585	CAP, PPP 270p G GB BB
266	C304	5359-S010J471	CAP, PPP 470p UA BK
266C	C304	5359-271585	CAP, PPP 270p G GB BB
259	C305	5345-225F041	CAP, MINI ELE 2.2 μ/50V
259	C306	5345-225F041	CAP, MINI ELE 2.2 μ/50V
265	C307	5354-152K1HM	CAP, MYL 1500p
265	C308	5354-152K1HM	CAP, MYL 1500p
260	C309	5345-105F0951	CAP, MINI ELE 1 μ/50V
268	C310	5361-101K918	CAP, CER 100p
258	C311	5345-106F041	CAP, MINI ELE 10 μ/50V
262	C312	5345-224F0951	CAP, MINI ELE .22 μ/50V
261	C313	5345-474F0951	CAP, MINI ELE .47 μ/50V
264	C314	5354-473K1HM	CAP, MYL .047 μ
267	C315	5361-102K918	CAP, CER 1000p
021C	C316	5345-476C0951	CAP, MINI ELE 47 μ/16V G GB BB
021C	C317	5345-476C0951	CAP, MINI ELE 47 μ/16V G GB BB
288	C354	5361-223Z921	CAP, CER .022 μ
327	C701	5345-107B041	CAP, MINI ELE 100 μ/10V
327	C702	5345-107B041	CAP, MINI ELE 100 μ/10V
325	C703	5345-228A041	CAP, MINI ELE 2200 μ/6.3V
327	C704	5345-107B041	CAP, MINI ELE 100 μ/10V
334	C705	5361-103M920	CAP, CER .01 μ
334	C706	5361-103M920	CAP, CER .01 μ
334	C707	5361-103M920	CAP, CER .01 μ
329	C709	5345-335F0951	CAP, MINI ELE 3.3 μ/50V
330	C710	5345-224F0951	CAP, MINI ELE .22 μ/50V
328	C711	5345-225F041	CAP, MINI ELE 2.2 μ/50V
333	C712	5361-180J922	CAP, CER 18p
333	C713	5361-180J922	CAP, CER 18p
333	C714	5361-180J922	CAP, CER 18p
333	C715	5361-180J922	CAP, CER 18p

Ser. No.	Ref. No.	Part No.	Description
334	C716	5361-103M920	CAP, CER .01 μ
326	C721	5345-227C041	CAP, MINI ELE 220 μ/16V
		RESISTORS	
387	R63	5232-331J16P	RES, CBN 1/6P 330
385	R64	5232-272J16P	RES, CBN 1/6P 2.7K
386	R65	5232-561J16P	RES, CBN 1/6P 560
388	R66	5232-100J16P	RES, CBN 1/6P 10
389	R67	5232-472J16P	RES, CBN 1/6P 4.7K
390	R68	5232-105J16P	RES, CBN 1/6P 1M
112	R101	5135-104522	RES, CBN 1/2P 100K
118	R102	5232-473J16P	RES, CBN 1/6P 47K
120	R103	5232-222J16P	RES, CBN 1/6P 2.2K
119	R104	5232-183J16P	RES, CBN 1/6P 18K
113	R105	5135-103522	RES, CBN 1/2P 10K
117	R106	5232-105J16P	RES, CBN 1/6P 1M
166	R201	5232-391J16P	RES, CBN 1/6P 390
167	R202	5232-221J16P	RES, CBN 1/6P 220
162	R203	5232-103J16P	RES, CBN 1/6P 10K
166	R204	5232-391J16P	RES, CBN 1/6P 390
167	R205	5232-221J16P	RES, CBN 1/6P 220
162	R206	5232-103J16P	RES, CBN 1/6P 10K
168	R207	5232-100J16P	RES, CBN 1/6P 10
165	R208	5232-102J16P	RES, CBN 1/6P 1K
162	R209	5232-103J16P	RES, CBN 1/6P 10K
163	R210	5232-332J16P	RES, CBN 1/6P 3.3K
164	R211	5232-222J16P	RES, CBN 1/6P 2.2K
161	R212	5232-223J16P	RES, CBN 1/6P 22K
230	R252	5232-104J16P	RES, CBN 1/6P 100K
227	R253	5135-471522	RES, CBN 1/2P 470
236	R254	5232-222J16P	RES, CBN 1/6P 2.2K
234	R255	5232-103J16P	RES, CBN 1/6P 10K
233	R256	5232-153J16P	RES, CBN 1/6P 15K
232	R257	5232-223J16P	RES, CBN 1/6P 22K
237	R258	5232-102J16P	RES, CBN 1/6P 1K
235	R259	5232-472J16P	RES, CBN 1/6P 4.7K
231	R260	5232-473J16P	RES, CBN 1/6P 47K
231	R261	5232-473J16P	RES, CBN 1/6P 47K
238	R262	5232-820J16P	RES, CBN 1/6P 82
240	R263	5232-123J16P	RES, CBN 1/6P 12K (UA) (BK)
240C	R263	5232-153J16P	RES, CBN 1/6P 15K (G) (GB) (BB)
270	R301	5232-104J16P	RES, CBN 1/6P 100K
270	R302	5232-104J16P	RES, CBN 1/6P 100K
269	R303	5232-154J16P	RES, CBN 1/6P 150K (UA) (BK)
269C	R303	5232-184J16P	RES, CBN 1/6P 180K (G) (GB) (BB)
269	R304	5232-154J16P	RES, CBN 1/6P 150K (UA) (BK)
269C	R304	5232-184J16P	RES, CBN 1/6P 180K (G) (GB) (BB)
269	R305	5232-154J16P	RES, CBN 1/6P 150K (UA) (BK)
269C	R305	5232-184J16P	RES, CBN 1/6P 180K (G) (GB) (BB)
269	R306	5232-154J16P	RES, CBN 1/6P 150K (UA) (BK)
269C	R306	5232-184J16P	RES, CBN 1/6P 180K (G) (GB) (BB)
273	R307	5232-332J16P	RES, CBN 1/6P 3.3K
273	R308	5232-332J16P	RES, CBN 1/6P 3.3K
274	R309	5232-223J16P	RES, CBN 1/6P 22K
274	R310	5232-223J16P	RES, CBN 1/6P 22K
271	R311	5232-103J16P	RES, CBN 1/6P 10K
271	R312	5232-103J16P	RES, CBN 1/6P 10K
271	R313	5232-103J16P	RES, CBN 1/6P 10K
272	R314	5232-472J16P	RES, CBN 1/6P 4.7K
290	R351	5135-104522	RES, CBN 1/2P 100K
293	R354	5232-224J16P	RES, CBN 1/6P 220K
293	R355	5232-224J16P	RES, CBN 1/6P 220K
293	R356	5232-224J16P	RES, CBN 1/6P 220K
292	R357	5232-334J16P	RES, CBN 1/6P 330K
291	R358	5232-105J16P	RES, CBN 1/6P 1M
295	R359	5232-473J16P	RES, CBN 1/6P 47K
294	R360	5232-104J16P	RES, CBN 1/6P 100K
294	R361	5232-104J16P	RES, CBN 1/6P 100K
294	R362	5232-104J16P	RES, CBN 1/6P 100K
296	R365	5232-223J16P	RES, CBN 1/6P 22K
295	R367	5232-473J16P	RES, CBN 1/6P 47K
299	R368	5232-472J16P	RES, CBN 1/6P 4.7K
290	R369	5135-104522	RES, CBN 1/2P 100K
341	R701	5171-221593	RES, MTL 1P 220
343	R702	5135-103522	RES, CBN 1/2P 10K
343	R703	5135-103522	RES, CBN 1/2P 10K
343	R704	5135-103522	RES, CBN 1/2P 10K
343	R705	5135-103522	RES, CBN 1/2P 10K
343	R706	5135-103522	RES, CBN 1/2P 10K
343	R707	5135-103522	RES, CBN 1/2P 10K
343	R708	5135-103522	RES, CBN 1/2P 10K
353	R709	5232-103J16P	RES, CBN 1/6P 10K
353	R710	5232-103J16P	RES, CBN 1/6P 10K
353	R711	5232-103J16P	RES, CBN 1/6P 10K
353	R712	5232-103J16P	RES, CBN 1/6P 10K
353	R713	5232-103J16P	RES, CBN 1/6P 10K
353	R714	5232-103J16P	RES, CBN 1/6P 10K
344	R715	5135-222522	RES, CBN 1/2P 2.2K
345	R716	5135-102522	RES, CBN 1/2P 1K
345	R717	5135-102522	RES, CBN 1/2P 1K
354	R718	5232-102J16P	RES, CBN 1/6P 1K
354	R720	5232-102J16P	RES, CBN 1/6P 1K
354	R721	5232-102J16P	RES, CBN 1/6P 1K
348	R722	5232-105J16P	RES, CBN 1/6P 1M
348	R723	5232-105J16P	RES, CBN 1/6P 1M
349	R724	5232-474J16P	RES, CBN 1/6P 470K
350	R726	5232-334J16P	RES, CBN 1/6P 330K
351	R727	5232-104J16P	RES, CBN 1/6P 100K
351	R728	5232-104J16P	RES, CBN 1/6P 100K
352	R730	5232-473J16P	RES, CBN 1/6P 47K
355	R731	5232-103J16P	RES, CBN 1/6P 10K
355	R732	5232-103J16P	RES, CBN 1/6P 10K
355	R733	5232-103J16P	RES, CBN 1/6P 10K
355	R734	5232-103J16P	RES, CBN 1/6P 10K
355	R735	5232-103J16P	RES, CBN 1/6P 10K
355	R736	5232-103J16P	RES, CBN 1/6P 10K
355	R737	5232-103J16P	RES, CBN 1/6P 10K
356	R738	5232-332J16P	RES, CBN 1/6P 3.3K
356	R739	5232-332J16P	RES, CBN 1/6P 3.3K
356	R740	5232-332J16P	RES, CBN 1/6P 3.3K
353	R741	5232-103J16P	RES, CBN 1/6P 10K
353	R742	5232-103J16P	RES, CBN 1/6P 10K
353	R743	5232-103J16P	RES, CBN 1/6P 10K
		INTEGRATED CIRCUITS	
131	IC201	5653-LA1266	IC, LINEAR
251	IC301	5653-LA3410	IC, LINEAR
311	IC701	5654-T9306F25	IC, DIGITAL
312	IC702	5654-TC9172AP	IC, DIGITAL
		TRANSISTORS	
371	Q61	5612-1375	XISTOR, PNP A
372	Q62	5613-2603 (F) or (E)	XISTOR, NPN R
102	Q101	5613-2603 (F)	XISTOR, NPN R
102	Q102	5613-2603 (F)	XISTOR, NPN R
133	Q201	5616-2SK241 (Y) or (GR)	FET, N-CH
133	Q202	5616-2SK241 (Y) or (GR)	FET, N-CH
133	Q203	5616-2SK241 (Y) or (GR)	FET, N-CH
221	Q251	5613-RN1203	XISTOR, NPN R
222	Q252	5611-RN2203	XISTOR, PNP R
252	Q301	5613-2878 (B)	XISTOR, NPN R
252	Q302	5613-2878 (B)	XISTOR, NPN R
282	Q351	5613-2603 (F) or (E)	XISTOR, NPN R
282	Q352	5613-2603 (F) or (E)	XISTOR, NPN R
282	Q353	5613-2603 (F) or (E)	XISTOR, NPN R
283	Q354	5613-RN1203	XISTOR, NPN R
283	Q355	5613-RN1203	XISTOR, NPN R
284	Q356	5611-RN2203	XISTOR, PNP R
314	Q701	5613-2240 (BL)	XISTOR, NPN R
315	Q702	5613-2603 (F) or (E)	XISTOR, NPN R
315	Q703	5613-2603 (F) or (E)	XISTOR, NPN R
316	Q704	5611-1115 (F) or (E)	XISTOR, PNP R
316	Q705	5611-1115 (F) or (E)	XISTOR, PNP R
		DIODES	
374	D61	5632-S5566B	DIODE, RECT
374	D62	5632-S5566B	DIODE, RECT
374	D63	5632-S5566B	DIODE, RECT
374	D64	5632-S5566B	DIODE, RECT
374	D65	5632-S5566B	DIODE, RECT
374	D66	5632-S5566B	DIODE, RECT
375	D67	5635-HZ12C2L	DIODE, ZENER

Ser. No.	Ref. No.	Part No.	Description
135	D201	5631-1S2473	DIODE, DET
136	D202	5631-1SS133	DIODE, DET
136	D203	5631-1SS133	DIODE, DET
136	D204	5631-1SS133	DIODE, DET
136	D205	5631-1SS133	DIODE, DET
191	D252	5633-1SV149	DIODE, CAP
193	D253	5631-1SS133	DIODE, DET
224	D254	5635-HZ6B1L	DIODE, ZENER
253	D301	5631-1SS133	DIODE, DET
253	D302	5631-1SS133	DIODE, DET
303	D351	5631-1SS133	DIODE, DET
303	D352	5631-1SS133	DIODE, DET
303	D353	5631-1SS133	DIODE, DET
357	D701	5635-HZ6B1L	DIODE, ZENER
318	D702	5631-1SS133	DIODE, DET
318	D703	5631-1SS133	DIODE, DET
318	D704	5631-1SS133	DIODE, DET
318	D705	5631-1SS133	DIODE, DET
318	D706	5631-1SS133	DIODE, DET
318	D707	5631-1SS133	DIODE, DET
318	D708	5631-1SS133	DIODE, DET
318	D709	5631-1SS133	DIODE, DET
319	D710	5631-1S2473	DIODE, DET
		COILS	
022C	L10	5214-86	LC COMPOSITE (G) (GB) (BB)
104	L101	5995-2R2J107	COIL W/CORE
154	L201	5995-2R2J107	COIL W/CORE
198	L252	5922-00112	OSC COIL, 7
		CONTROLS	
242	VR251	5101-50301937	RES, SEMI FIX 50K
255	VR301	5101-10401937	RES, SEMI FIX 100K
		MISCELLANEOUS	
141	T201	5562-01011	IFT, FM 7
141	T202	5562-01011	IFT, FM 7
140	T203	5572-10201	DISCRI 7
199	T251	5552-70114	IFT, AM 7
323	X701	5691-00720027	XTAL, OSC
138	CF201	5671-7119A	FILTER, CER S (UA) (BK)
138C	CF201	5671-7141A	FILTER, CER S (G) (GB) (BB)
138	CF202	5671-7119A	FILTER, CER S (UA) (BK)
139C	CF202	5671-7142A	FILTER, CER S (G) (GB) (BB)
139	CF203	5671-7120A	FILTER, CER S (UA) (BK)
139C	CF203	5671-7142A	FILTER, CER S (G) (GB) (BB)
201	CF251	5671-0159	FILTER, CER S
202	CF252	5671-7137C	FILTER, CER S
417	CN101	4443-070185	CONNECTOR
419	CN102	4443-040185	CONNECTOR
422	CN103	4443-050185	CONNECTOR
420	CN105	4443-030185	CONNECTOR
418	CN106	4443-060185	CONNECTOR
421	CN107	4443-0301140	CONNECTOR
254	CX301	5693-CSB456F1	OSC, CER
101	FE101	6114-00301	FM TUNER (UA) (BK)
101C	FE101	6114-00201	FM TUNER (G) (GB) (BB)
394	HF1	4472-0131	HOLDER, FUSE
394	HF2	4472-0131	HOLDER, FUSE
425	TM101	4214-11023	TERMINAL
401	DSP1	5791-BP8A9041	LCD

PCB-22 TACT SWITCHES P.C. BOARD

		DIODES	
320	D711	5631-1SS133	DIODE, DET
320	D712	5631-1SS133	DIODE, DET
320	D713	5631-1SS133	DIODE, DET
320	D714	5631-1SS133	DIODE, DET
320	D715	5631-1SS133	DIODE, DET
320	D716	5631-1SS133	DIODE, DET
320	D717	5631-1SS133	DIODE, DET
320	D718	5631-1SS133	DIODE, DET
320	D719	5631-1SS133	DIODE, DET (UA) (BK)
320	D720	5631-1SS133	DIODE, DET (UA) (BK)

Ser. No.	Ref. No.	Part No.	Description
		MISCELLANEOUS	
405	S101	4431-A010196	SWITCH, PUSH
405	S102	4431-A010196	SWITCH, PUSH
405	S103	4431-A010196	SWITCH, PUSH
405	S104	4431-A010196	SWITCH, PUSH
405	S105	4431-A010196	SWITCH, PUSH
405	S106	4431-A010196	SWITCH, PUSH
405	S107	4431-A010196	SWITCH, PUSH
405	S108	4431-A010196	SWITCH, PUSH
411	JL101	4242-R0407121	JUMPER LEAD

PCB-23 TUNING SWITCH P.C. BOARD

		CAPACITORS	
286	C351	5345-106C0356	CAP, MINI ELE 10μ/16V
286	C352	5345-106C0356	CAP, MINI ELE 10μ/16V
287	C353	5345-475D0356	CAP, MINI ELE 4.7μ/25V
		RESISTORS	
297	R352	5232-153J16P	RES, CBN 1/6P 15K
298	R353	5232-103J16P	RES, CBN 1/6P 10K
		INTEGRATED CIRCUIT	
281	IC351	5652-BA6124	IC, MONO
		DIODES	
403	D381	5637-LN01301C	LED
403	D383	5637-LN01301C	LED
403	D385	5637-LN01301C	LED
321	D721	5631-1SS133	DIODE, DET
321	D722	5631-1SS133	DIODE, DET
321	D723	5631-1SS133	DIODE, DET
321	D724	5631-1SS133	DIODE, DET
		MISCELLANEOUS	
406	S109	4431-A010196	SWITCH, PUSH
406	S110	4431-A010196	SWITCH, PUSH
406	S111	4431-A010196	SWITCH, PUSH
410	JL102	4242-R0404181	JUMPER LEAD
412	JL103	4242-R0405161	JUMPER LEAD
408	RCV1	6143-00301	RECEIVER BLOCK

PCB-24 ANTENNA TERMINAL P.C. BOARD

		COIL	
123	L102	5943-00136	COIL BBN, 10
		MISCELLANEOUS	
413	JL104	4242-R0304601	JUMPER LEAD
424	TM102	4214-166	TERMINAL (UA) (BK)
424C	TM102	4214-167	TERMINAL (G) (GB) (BB)
423	TM103	4214-164	TERMINAL

PCB-25 AM ADJUSTMENT P.C. BOARD

		CAPACITOR	
215	C264	5361-473ZF	CAP, CER .047μ
		RESISTOR	
239	R251	5232-104J16P	RES, CBN 1/6P 100K
		DIODE	
192	D251	5633-1SV149	DIODE, CAP
		MISCELLANEOUS	
196	L251	5933-00101	COIL CASE, 10
194	TC251	5371-93	TRIMMER, 1P

PCB-26 LAMP P.C. BOARD

		RESISTORS	
383	R61	5135-100522	RES, CBN 1/2P 10
391	⚠R62	5102-6R85116	RES, FUSE 6.8
		MISCELLANEOUS	
415	JL108	4132-R0100101	CORD, 2C
402	LP1	5731-00101140	LAMP
402	LP2	5731-00101140	LAMP

Ser. No.	Ref. No.	Part No.	Description

ABBREVIATIONS IN PARTS LIST

CAPACITORS

CAP, MINI ELE	: Electrolytic
CAP, CER	: Ceramic
CAP, PPP	: Polypropylene
CAP, MYL	: Mylar
CAP, MCA	: Mica
CAP, MINI BP	: Bipolar
CAP, ELE BP	: Electrolytic Bipolar
CAP, STY	: Polystyrene Film
CAP, SPE	: Special
CAP, TAN	: Tantalum
470 μ	: 470 μF
6800p	: 6800pF
.047 μ	: 0.047 μF

RESISTORS

RES, CBN 1/6P	: Carbon 1/6W
RES, FUSE	: Fuse
RES, CEM 5P	: Cement 5W
RES, MTL 1P	: Metal 1W
2.2K	: 2.2kΩ
220	: 220Ω

TRANSISTORS

XISTOR	: Transistor
FET	: Field Effect Transistor

CONTROLS

RES, V CBN	: Variable Carbon Resistor
RES, SEMI FIX	: Semi-fixed Resistor

CHASSIS MISCELLANEOUS

947	⚠F1	5732-402031	FUSE (UA) (BK)
947B	⚠F1	5732-202030	FUSE (G) (GB) (BB)
395	⚠F2	5732-102031	FUSE
683	⚠TF1	5584-S1406	XFORMER, POWER (UA) (BK)
683B	⚠TF1	5584-S1407	XFORMER, POWER (G) (GB) (BB)
051B	⚠S201	4411-102719	ROTRY SWITCH, VOLTAGE SELECTOR (G) (GB) (BB)
734	SW5	4421-0227230	SWITCH, SLIDE
744	⚠SC1	4474-157	SOCKET, AC OUTLET (UA) (BK)
745	⚠PO1	4161-71151	CORD W/PLUG, POWER (UA) (BK)
745B	⚠PO1	4161-7256	CORD W/PLUG, POWER (G) (GB)
745D	⚠PO1	4161-04100	CORD W/PLUG, POWER (BB)
820	R50	5135-335522	RES, CBN 1/2P 3.3M
823	TMF1	4318-00101080	THERMAL FUSE

PACKAGE PARTS LIST

021B	1756-06303	LABEL (G) (GB) (BB)
022B	1756-03108	LABEL (G) (GB)
022D	1756-03111	LABEL (BB)
026B	1756-01405	LABEL (G) (GB)
027D	1756-08501	LABEL (BB)
106	1111-J90195	OWNER GUIDE, UL (UA) (BK)
107	1111-J30283	OWNER GUIDE (UA) (BK)
107B	1111-J30284	OWNER GUIDE (G) (GB) (BB)
108	1113-717004	OWNER CARD (UA) (BK)
109	1119-047	ATTACH SHEET (UA) (BK)
110	1119-0137	ATTACH SHEET (UA) (BK)
120	4191-0355	BATTERY, DRY UM-3X2
121	1241-C12732	POLYETHY BAG OG
122	1241-C1491	POLYETHY BAG SET
123	1241-C1227	POLYETHY BAG ANT
124	1221-757167	CARTON BOX (UA) (G)
124A	1221-767167	CARTON BOX (BK) (GB) (BB)
125	1222-7264	CUSHION L
126	1222-7265	CUSHION R
127	1223-11729	SOFT SHEET
128	1397-6	T FEEDER ANT
129	6142-02701	CONT BLOCK REMOCON
822	2421-7004	PIN, SHORT
195	5911-235	ANT COIL BC

NOTE

⚠ SAFETY RELATED COMPONENT. USE ONLY EXACT REPLACEMENT PART AS SPECIFIED.